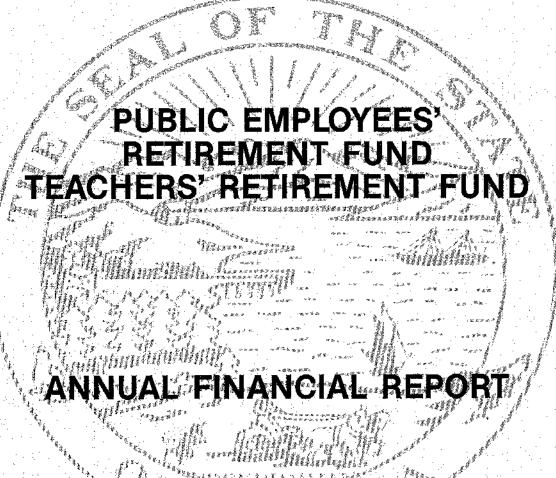
STATE OF ALASKA



Steve Cowper, Governor

For the Fiscal Year July 1, 1986 — June 30, 1987

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STATE OF ALASKA

PUBLIC EMPLOYEES' RETIREMENT FUND TEACHERS' RETIREMENT FUND Fiscal Year 1987

TABLE OF CONTENTS

•	Page Numbers
INTRODUCTORY SECTION:	
Commissioner's Letter Director's Letter Investment Comments by Department of Revenue Combined Balance Sheet	1 2-4 5-6 7
PUBLIC EMPLOYEES' RETIREMENT SYSTEM:	
Board Members Auditor's Report and Financial Statements Actuarial Status Comparative Statement of Operations Benefit Payments Breakdown FY 1987 Income and Receipts FY 1987 Disbursements Historical Data Employer Contribution Rates	8 9-19 20-29 30-36 37 38 39 40-42 43-45
TEACHERS' RETIREMENT SYSTEM:	
Board Members Auditor's Report and Financial Statements Actuarial Status Comparative Statement of Operations FY 1987 Income and Receipts FY 1987 Disbursements Historical Data Employer Contribution Rates	46 47-57 58-68 69-70 71 72 73-75 76-77
INVESTMENTS:	
Public Employees' Retirement System Teachers' Retirement System	78-87 88-97



INTRODUCTORY SECTION

Prepared by
Department of Administration
Division of Retirement and Benefits



STATE OF ALASKA

DEPARTMENT OF ADMINISTRATION

OFFICE OF THE COMMISSIONER

STEVE COWPER, GOVERNOR

POUCH C (MS 0200) JUNEAU, ALASKA 99811 PHONE: (907) 465-2200

December 18, 1987

The Honorable Steve Cowper Governor of Alaska P.O. Box A Juneau, AK 99811

Dear Governor Cowper:

It is my pleasure to submit to you the Annual Report of the Alaska Public Employees' Retirement System (PERS) and Teachers' Retirement System (TRS).

This report shows the financial condition of both the PERS and TRS funds as of June 30, 1987. It has been prepared on the basis of standards set forth by the National Council on Governmental Accounting and is submitted in accordance with the requirements of Alaska Statutes 39.35.020(5) (PERS) and 14.25.030(4) (TRS).

Sincerely,

John M. Andrews Commissioner

JMA/cam/4 Enclosure .

STATE OF ALASKA

DEPARTMENT OF ADMINISTRATION

DIVISION OF RETIREMENT & BENEFITS

PLEASE REPLY TO:

☐ P.O.BOX CR JUNEAU, ALASKA 99811-0203 PHONE: (907)465-4460 2600 DENALI ST. SUITE 401 ANCHORAGE, ALASKA 99503-2740 PHONE: (907) 277-7504 Public Employees' Retirement System
Teachers' Retirement System
Judicial Retirement System
Erected Public Officers Retirement System
National Guard Retirement System
National Guard Retirement System
Territorial Retirement System
Retirees' Voluntary Dental-Vision-Audio Plan
Supplemental Benefits System
Group Health/Life Insurance Benefits
Deferred Compensation Plan
Public Employers Social Security Contributions

STEVE COWPER, GOVERNOR

December 18, 1987

Commissioner John M. Andrews Department of Administration P.O. Box C Juneau, AK 99811-0200

Dear Commissioner Andrews:

I am pleased to submit to you the Annual Report of the Public Employees' (PERS) and Teachers' (TRS) Retirement Systems. The information presented in this report shows the results of operations and the financial condition of the two retirement funds for the fiscal year ending June 30, 1987. The financial statements in this report are presented on the accrual basis of accounting in accordance with the Financial Accounting Standards Board, Standard No. 35.

The report contains the financial statements, the audit report from the professional accounting firm of Peat, Marwick, Main and Company, and excerpts from the most recent actuarial valuations prepared by the system's actuary, William M. Mercer-Meidinger-Hansen, Inc. Also included are the fiscal year investment comments from the Division of Treasury, Department of Revenue, which is charged with the investment of the retirement funds.

The June 30, 1987, net assets available for benefits were \$2,010,195,776 for the PERS, an increase of 15.5 percent over the previous year; and \$1,303,464,050 for the TRS, an increase of 14.2 percent over the previous year.

The graphs on pages 41 and 42 (PERS) and pages 74 and 75 (TRS) demonstrate the increases in total assets and benefits paid in recent years. Additional information for the fiscal years ending June 30, 1985, through June 30, 1987, is provided in the following table:

·	FY	1987	FY	1986	FY 1985		
Number of	<u>PERS</u>	TRS	PERS	TRS	<u>PERS</u>	TRS	
Number of participating employers (reporting entiti	117 es)	62	112	61	105	59	
Number of participating							
members	26,802	7,810	27,643	8,824	27,183	8,684	

Number of	PERS	Y 1987 <u>TRS</u>	FY PERS	1986 <u>TRS</u>	FY PERS	1985 <u>TRS</u>
retired members	5,668	2,401	4,657	2,098	4,317	2,022
Average Annual	F <u>PERS</u>	Y 1987 <u>TRS</u>	FY <u>PERS</u>	1986 TRS	FY PERS	1985 <u>TRS</u>
Retirement Benefit	\$11,073	\$19,716	\$10,068	\$18,504	\$10,032	\$18,408
Average Annual Medical Benefit	\$1,980	\$1,980	\$2,100	\$2,100	\$2,302	\$2,302

The fall 1986 PERS and TRS Board meetings were held in Anchorage and the spring 1987 meetings were held in Juneau. The annual actuarial valuations and employer contribution rates were approved by the PERS Board at a special meeting in January 1987 and the TRS Board at the regular spring meeting.

The following legislation affecting the retirement systems passed during the 1987 legislative session:

- Chapter 21, SLA 1987 (SB 139), amended the PERS conditional service retirement benefits provision (AS 39.35.385(f)) to require legislative employees hired after May 30, 1987, to have at least 80 days of credited service (instead of 60) during each of five legislative sessions to qualify for a conditional benefit when they reach retirement age.
- ° Chapter 64, SLA 1987 (HB 215), added a provision to allow a PERS member to claim PERS credit for leave without pay (LWOP) due to occupational causes if the LWOP occurred after June 12, 1987, and the member received workers' compensation during the LWOP.
- Chapter 91, SLA 1987 (CSHB 126), amended AS 14.25.070 and repealed AS 14.25.080 which required the State to pay one-half of the TRS retirement contributions, excluding the employees' share, necessary to actuarially fund the TRS. This legislation provided for another method of State funding under the public school foundation program.

A copy of this report will be mailed to all PERS and TRS employers. The cooperation of those employers is essential to the successful operation of the system.

Sincerely, Robert 2. Statnaker

Robert F. Stalmaker Acting Director

RFS/jmp Enclosure .

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STATE OF ALASKA

DEPARTMENT OF REVENUE

TREASURY DIVISION

STEVE COWPER, GOVERNOR

ELEVENTH FLOOR STATE OFFICE BUILDING P.O. BOX SB JUNEAU, ALASKA 99811-0400

November 24, 1987

Commissioner Hugh Malone Department of Revenue Juneau, AK 99811

Dear Commissioner Malone:

The combined market value of the Public Employees and the Teachers Retirement Systems' investments rose to \$3.319 billion on June 30, 1987, an increase of \$490 million during fiscal year 1987 and a doubling of asset size over the last three years. The unusually large increase in the market value of the assets is the direct result of relatively high investment returns, which averaged 20.9 percent per year over the last three years and accounted for 81 percent of the asset value increase. During the three year long period the equity investments have yielded 26.2 percent per year and the fixed income investments have yielded 18.2 percent per year. Both of those yields are exceptionally high by historical standards—almost twice the normal level—and it is reasonable to expect that they will be partially offset by lower returns over the next few years.

The fiscal year 1987 investment returns constituted 22 percent of the total three year increase in asset values, a slower pace than the first two years but better than we expected at the beginning of the year. While equities continued to be the best performer, yielding 20.3 percent during the year, fixed income yields fell to 4.5 percent as market values declined in response to rising interest rate levels. The lower market value returns on fixed income investments is not significant for the systems because it does not affect the actuarial evaluation of the systems' assets. The actuarially calculated return on the fixed investments was 10.6 percent for FY 1987 and averaged 11.2 percent per year over the last three years. The assumed rate of return utilized by the actuary is 9 percent per annum, substantially below their calculated return on our total investments of more than 16 percent per year over the three year period. Because the calculated returns are so much higher than the assumed returns, the retirement systems have a comfortable cushion which can absorb a couple of years of relatively low investment returns without requiring any increase in the current level of contributions. Although the

Commissioner Hugh Malone November 24. 1987 Page 2

actuary's final report has not been received. it will probably show that both of the retirement systems ended the year with a funded ratio of more than 100 percent. a rare achievement for state retirement systems in the United States.

We do not expect comparably high market value returns for the current fiscal year of 1988. Domestic common stock prices, which by many calculations have been over-valued for more than the past year, dropped precipitously in October and are now at more reasonable valuation levels. Although the lower current prices provide a sounder basis for expecting better returns on equity investments over the next few years, the current fiscal year will bear the brunt of the revaluation and, consequently, equity returns are expected to be relatively poor this year. On the other hand, fixed income investment returns should improve this year if the current decline in interest rate levels continues.

The many employers and employees who participate in the state retirement systems should find it reassuring to know that. despite the widespread financial problems within the State. their entrusted retirement funds are now financially stronger and more fully capable than ever before of meeting the obligation to pay current and future retirement benefits.

Respectfully.

James R. Wilson

Chief Investment Manager Portfolio Management Section

JRW/gb

STATE OF ALASKA RETIREMENT FUNDS Combined Balance Sheet June 30, 1987 (In Thousands)

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ASSETS	Total	Public Employees' Retirement Fund	Teachers' Retirement Fund
Investments, at fair value: Short-term investments United States Government securities Corporate bonds, notes and debentures Common stocks Foreign stocks Real estate equity funds Total investments	\$ 8,500 1,181,605 295,614 997,532 337,820 193,078 \$3,014,149	\$ 5,700 735,633 179,176 604,931 203,400 117,480 \$1,846,320	\$ 2,800 445,972 116,438 392,601 134,420 75,598 \$1,167,829
Loans and mortgages, at cost	\$ 246,547	<u>\$ 134,126</u>	<u>\$ 112,421</u>
Receivables: Contributions Accrued interest and dividends Total receivables	\$ 12,661 34,803 \$ 47,464	\$ 4,726 21,615 \$ 26,341	\$ 7,935 13,188 \$ 21,123
Cash in interest-bearing accounts Total assets	\$ 9,485 \$3,317,645	\$ 5,468 \$2,012,255	\$ 4,017 \$1,305,390
Liability - accrued expenses	3,985	2,059	1,926
Net assets available for benefits	\$3,313,660	\$2,010,196	\$1,303,464

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PUBLIC EMPLOYEES' RETIREMENT SYSTEM



STATE OF ALASKA

PUBLIC EMPLOYEES' RETIREMENT SYSTEM

BOARD MEMBERS

NAME	TERM EXPIRES
C.R. "STEVE" HAFLING, CHAIRMAN	JULY 20, 1990
JAMES P. WELLINGTON, VICE-CHAIRMAN	MARCH 7, 1990
BEN HUMPHRIES	JUNE 20, 1988
MARLENE A. JOHNSON	JUNE 20, 1992
MARY A. NOTAR	MARCH 7, 1990

KPMG Peat Marwick

Certified Public Accountants

Peat Marwick Main & Co. 601 West Fifth Avenue, Suite 700 Anchorage, AK 99501

Division of Retirement and Benefits and Members of the Alaska Public Employees' Retirement Board State of Alaska Public Employees' Retirement System:

We have examined the statements of net assets available for benefits of the State of Alaska Public Employees' Retirement System as of June 30, 1987 and 1986, and the related statements of changes in net assets available for benefits for the years then ended and the statement of accumulated plan benefits as of June 30, 1986. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial status of the Plan as of June 30, 1986, and the changes in its financial status for the year then ended and information regarding net assets available for benefits and changes therein as of and for the years ended June 30, 1987 and 1986, in conformity with generally accepted accounting principles applied on a consistent basis.

Peat Marrick Main & Co.

September 15, 1987

Statements of Net Assets Available for Benefits

June 30, 1987 and 1986

(in thousands)

	1987	1986
Assets:		
Investments, at fair value: Short-term investments	\$ 5,700	34,900
United States Government securities	735,633	583,492
Corporate bonds, notes and debentures	179,176 604,931	200,108 439,869
Common stocks	203,400	·
Foreign stocks Real estate equity funds	117,480	97,994
Financial futures	-	1
Total investments	1,846,320	1,466,587
Loans and mortgages, at cost, net of allowance for loan losses of \$4,221 in 1987	134,126	237,782
Receivables:	,	
Contributions	4,726	4,936
Accrued interest and dividends Total receivables	21,615 26,341	19,821 24,757
Cash in interest-bearing accounts Total assets	5,468 2,012,255	11,942 1,741,068
100al append	,	
Liability - accrued expenses	2,059	1,225
Net assets available for benefits	\$ 2,010,196	1,739,843

See accompanying notes to financial statements.

Statements of Changes in Net Assets Available for Benefits

Years ended June 30, 1987 and 1986

(in thousands)

		<u> 1987</u>	1986
Additions:			
Investment income:			
Net appreciation (depreciation) in fair value of			
investments (note 5)	\$	(27,799)	159,873
Interest	*	108,556	112,258
Dividends		13,571	10,948
Net realized gains on sale		107,886	58,934
Total investment income before provision	-		
for losses on loans and mortgages		202,214	342,013
Provision for losses on loans and mortgages		4,221	470
Net investment income	. •	197,993	342,013
Contributions:			
State of Alaska and other employers		103,719	127,727
Employees		51,879	42,626
Total contributions		155,598	170,353
Total additions		353,591	512,366
Deductions:			
Benefits paid:			
Retirement		57,473	45,916
Medical		10,256	9,411
Total benefits paid		67,729	55,327
Refunds to terminated employees		10,524	9,165
Administrative expenses	_	4,985	3,567
Total deductions		83,238	68,059
Net increase		270,353	444,307
Net assets available for benefits:			
Beginning of year		1,739,843	1,295,536
End of year	\$	2,010,196	1,739,843

See accompanying notes to financial statements.

Statement of Accumulated Plan Benefits

June 30, 1986

(in thousands)

Actuarial present value of accumulated benefits: Vested benefits:	
Participants currently receiving payments Other participants Total vested benefits	\$ 415,115 939,011 1,354,126
Nonvested benefits	383,736
Total actuarial present value of accumulated benefits	\$ <u>1,737,862</u>

At June 30, 1985, the total actuarial present value of accumulated benefits was \$1,358,615. During the year ended June 30, 1986, the actuarial present value of accumulated plan benefits increased \$125,094 as a result of changes in the actuarial assumptions (notes 3 and 6).

See accompanying notes to financial statements.

Notes to Financial Statements

June 30, 1987 and 1986

(1) Description of State of Alaska Public Employees' Retirement System (Plan)

The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

General

The Plan is a joint-contributor plan created by State of Alaska Statutes effective January 1, 1961. The Plan was established to encourage qualified personnel to enter and remain in the service of the State, political subdivision or public organization of the State. Inclusion in the Plan is a condition of employment for State of Alaska employees except as otherwise provided for elected officers. A municipality or other political subdivision of the State may request to become an employer in this system.

Pension Benefits

Employees hired prior to July 1, 1986 with five or more years of credited service are entitled to annual pension benefits beginning at normal retirement age 55 or early retirement age 50. For employees hired after June 30, 1986, the normal and early retirement ages are 60 and 55, respectively. The normal annual pension benefit is equal to 2% of the member's highest three-year average monthly compensation for the first ten years of service, 2-1/4% for the second ten years of service and 2-1/2% for the third ten years of service. All service earned prior to July 1, 1986 will be calculated using the 2% multiplier. Employees with 30 or more years of credited service (20 years for peace officers and firemen) may retire at any age and receive a normal benefit. Employees retiring prior to January 1, 1987 may elect to receive their pension benefits in the form of a joint and survivor annuity. Beginning January 1, 1987, new retirees must receive their benefits in the form of a joint and survivor annuity unless the member's spouse agrees to another form of benefit. Minimum benefits for employees eligible for retirement are \$25 per month for each year of credited service. Major medical benefits are provided without cost to all members first hired before July 1, 1986. Members first hired after June 30, 1986 may elect major medical benefits.

Retirement Incentive Program

Legislation passed in May 1986 established a retirement incentive program designed to encourage eligible employees to voluntarily retire in order to reduce personnel service costs. The program was available to eligible State of Alaska employees until June 30, 1987, eligible University of Alaska employees from October 1, 1986 to September 30, 1987, and all other members from January 1, 1987 to December 31, 1987.

Notes to Financial Statements

The Plan is to be reimbursed by the participating agency or employer of the program within three years after the end of the fiscal year in which a member retires. The amount of reimbursement is the actuarial equivalent of the difference between the benefits the member receives after the addition of the retirement incentive under the program and the amount the member would have received without the incentive, less any amount the participant has paid as part of retiring under the program. Participating peace officers or firemen are indebted 15% and all other members 12.75% of their annual compensation for the calendar year in which the member terminates employment to participate in the program. An outstanding indebtedness at the time a participant is appointed to retirement will result in an actuarial adjustment to his/her benefit.

The effect of the retirement incentive program on the actuarial present value of accumulated benefits or the related contributions due from employers and employees electing to fund their early retirement has not been determined.

Death and Disability Benefits

If an active employee dies from occupational causes, the employee's spouse or dependent children receive a monthly pension from the Plan. The amount of the pension changes on the date the employee's normal retirement would have occurred if the employee had lived. The new benefit is based on the employee's average base salary at the time of his/her death and the credited service that would have occurred had the employee lived and continued to work until normal retirement date. Nonoccupational death benefits are paid based on years of service and would consist of either a lump-sum benefit or a joint and survivor option. Active employees who become permanently disabled due to an occupational injury receive disability payments until normal retirement age. At normal retirement age the disabled participants begin receiving normal retirement benefits computed as though they had been employed to normal retirement age with their annual compensation remaining the same as at the time they became disabled.

(2) Summary of Significant Accounting Policies

Valuation of Investments

Investments, other than real estate equity funds and loans and mortgages, are carried at market value to reflect their asset values as determined by the last quoted market price at June 30, 1987 and 1986.

Real estate equity funds are stated at estimated market value as determined by the independent management of the investment accounts. These investments do not have a readily available market and generally represent long-term investments.

Notes to Financial Statements

Loans and mortgages are serviced by the institution from which the loan is purchased. The policy of the Plan is to hold these investments until maturity and, accordingly, the investments are stated at cost, less an allowance for estimated loan losses. Loans and mortgages include approximately \$5,443,000 and \$2,183,000 for 1987 and 1986, respectively, of other real estate owned. Other real estate owned represents properties on which the Plan has foreclosed and is holding with the intent to resell.

The Commissioner of Revenue has the statutory authority to invest the moneys of the Plan. This authority is delegated to investment officers of the treasury division of the Department of Revenue. Alaska Statute provides for the investment in United States Treasury or agency securities; corporate debt securities; preferred and common stock, commercial paper; securities of foreign governments, agencies and corporations; foreign time deposits, gold bullion; futures contracts for the purpose of hedging; real estate investment trusts; deposits within Alaska savings and loans and mutual savings banks; deposits with state and national banks in Alaska, guaranteed loans; notes secured by mortgages; certificates of deposit and banker's acceptances.

The Plan's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the Plan at June 30, 1987.

Deposits:

- Category 1. Insured or collateralized with securities held by the state or its custodian in the state's name.
- Category 2. Collateralized with securities held by the pledging financial institution's trust department or custodian in the state's name.
- Category 3. Uncollateralized.

Investments:

- Category 1. Insured or registered for which the securities are held by the state or its custodian in the state's name.
- Category 2. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the state's name.

Notes to Financial Statements

Category 3. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent but not in the state's name.

		Category (in thousands)_ Carrying				Market value of
•		1	2	3	<u>value</u>	securities
Deposits - cash	\$	5,468	-	-	5,468	5,578
Investments: Repurchase agreements U.S. Government securities Corporate bonds Common stocks Foreign stocks Real estate equity funds		5,700 735,633 179,176 604,931	203,400		5,700 735,633 179,176 604,931 203,400 117,480	5,815 735,633 179,176 604,931 203,400 117,480
uest condre edatel imiss	. \$	1,648,388	203,400		1,851,788	1,852,013

Treasury investment policy requires that securities underlying the repurchase agreements must have a minimum market value of 102% of the cost of the repurchase agreement. There were no violations of this policy during the dates covered by this statement.

Contributions Receivable

Contributions from employees and employers for service through June 30 are accrued. These contributions are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

Investment Income Receivable

Investment income receivable represents amounts earned but not yet received as of June 30. These amounts are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

Notes to Financial Statements

(3) Actuarial Present Value of Accumulated Benefits

Accumulated benefits are those future periodic payments, including lump-sum distributions, that are attributable under the Plan's provision to the service employees have rendered. Accumulated benefits include benefits expected to be paid to retired or terminated employees or their beneficiaries, beneficiaries of employees who have died, and present employees or their beneficiaries. Benefits under the Plan are based on employees' compensation during their highest three years of credited service. The accumulated benefits for active employees are based on their average compensation during the three years ending on the date that the benefit information is presented (the valuation date). Benefits payable under all circumstances—retirement, death, disability, and termination of employment—are included, to the extent they are deemed attributable to employee service rendered to the valuation date.

The actuarial present value of accumulated benefits is determined by an actuary from William M. Mercer-Meidinger Incorporated and is that amount that results from applying actuarial assumptions to adjust the accumulated benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The significant actuarial assumptions used in the valuations as of June 30, 1986 are as follows:

- a. Actuarial cost method projected unit credit, unfunded accrued benefit liability amortized over 25 years, funding surplus amortized over 5 years.
- b. Mortality basis 1984 Unisex Pension Mortality Table set back one and one-half years.
- c. Retirement age retirement rates based on actual experience.
- d. Interest rate 9% per annum, compounded annually, net of investment expenses.
- e. Health cost inflation 9% per annum.
- f. Salary scale increase of 6.5% for the first five years of employment and 5.5% per year thereafter.
- g. Cost of living allowance (domicile in Alaska) 69% of those receiving benefits will be eligible to receive the cost of living allowance.

Notes to Financial Statements

- h. Contribution refunds 100% of those terminating after age 35 with five or more years of service will leave their contributions and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.
- i. Asset valuation three-year average ratio between market and book values of assets.

Turnover and disability assumptions are based upon actual historical occurrence rates of the Plan. The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated benefits.

(4) Funding Policy

Employees' Contributions
Prior to January 1, 1987, employees contributed 4-1/4% of their compensation,
except for peace officers and firemen, who contribute 5% of their
compensation to the Plan. Beginning January 1, 1987, contribution rates
increased to 7.5% for peace officers and firemen and 6.75% for other
employees. Present employees' accumulated contributions at June 30, 1987
were \$275,238,000. Contributions are collected by employers and remitted to
the Plan.

Employer Contribution
Employer contributions vary and are determined annually on an actuarial basis
for each employer.

(5) Investments

During 1987 and 1986, the Plan's investments (including investments bought, sold, as well as held during the year) appreciated (depreciated) in value as follows:

	<u> 1987 </u>	<u> 1986</u>
United States Government securities Corporate bonds, notes and debentures Common stocks Foreign stocks Foreign bonds Real estate equity funds	\$ (34,394) (4,984) (254) 1,661 - 10,172	71,894 4,805 60,758 23,152 (1,403)
	\$ (<u>27,799</u>)	159,873

Notes to Financial Statements

(6) Change in Actuarial Assumptions

Effective July 1, 1986, the Plan adopted new actuarial assumptions. The actuarial method used is the same, however, actuarial funding surpluses are amortized over five years rather than twenty-five years. The assumed rate of interest was increased from 8% to 9% per year. The salary scale assumption was lowered to 6.5% per year for the first five years of employment and 5.5% per year thereafter, down from 8% and 7%, respectively. Health care cost inflation was increased to 9% rather than 8%. Turnover and disability assumptions were revised based on actual experience in 1981 through 1985. The method for determining accumulated Plan benefits was changed to include not only a valuation of retirement benefits but also of deferred vested, death benefits and other ancillary benefits.

(7) Contingent Liabilities

The State of Alaska Public Employees' Retirement System (System) was a party to an action contesting application of the early retirement factors adopted by the System in the calculation of the actuarial present value of the accumulated Plan benefits. The Alaska Supreme Court ruled in 1987 that the System must use the most favorable early retirement factor available when a member begins receiving a monthly benefit. While the suit only specifically addressed early retirement factors, other actuarial retirement factors will also be affected. As a result of the suit, the System's actuary estimates that the actuarial present value of the accumulated Plan benefits will increase by approximately \$50,000,000, which will result in an increase of approximately 1% in the average annual employer contribution rate. The effect of the suit on the amount payable to current retirees as a result of not using the most favorable actuarial retirement factors has not been determined.

HIGHLIGHTS

This report has been prepared by William M. Mercer-Meidinger, Incorporated to:

- (1) present the results of a valuation of the Alaska Public Employees' Retirement System as of June 30, 1986;
- (2) review experience under the plan for the year ended June 30, 1986;
- (3) determine the contribution rates for the State and for each political subdivision of the State;
- (4) provide reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The report is divided into two sections. Section 1 describes the basis of the valuation. It summarizes the plan provisions, provides information relating to the plan participants, and describes the funding methods and actuarial assumptions used in determining liabilities and costs.

Section 2 contains the results of the valuation. It includes the experience of the plan during the 1985-86 plan year, the current annual costs, and reporting and disclosure information.

The principle results are as follows:	1985**	1986
Funding Status as of June 30:		
(a) Valuation Assets*	\$1,248,146	\$1,587,599
<pre>(b) Present Value of Accrued Benefits*</pre>	1,328,964	1,556,610
<pre>(c) Accrued Benefit Funding Ratio (a) / (b)</pre>	93.9%	102.0%
Contributions for Fiscal Year	<u>1987</u>	1988-89
(a) Consolidated Rate	10.02%	10.37%
(b) Average Past Service Rate	.60%	(.82%)
(c) Average Total Contribution Rate	10.67%	9.55%

^{*} In thousands.

^{**} After change in assumptions.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the plan sponsor and financial information provided by Peat, Marwick, Mitchell & Company, to determine a sound value for the plan liabilities. We believe that this value and the method suggested for funding it are in full compliance with the Governmental Accounting Standards Board, the Internal Revenue Code, and all applicable regulations.

Respectfully submitted,

Robert F. Richardson, ASA

Robert J. Richardson

Principal

RFR/jam

January 6, 1987

ANALYSIS OF THE VALUATION

Actuarial Method and Assumptions

This actuarial report utilizes the same actuarial method as last year. However, actuarial funding surpluses are amortized over five years rather than 25 in last year's report. An experience analysis was completed in 1986 which led to revisions in the actuarial assumptions. The assumed rate of interest was increased from 8% to 9% per year. The salary scale assumption was lowered to 6.5% per year for the first five years of employment and 5.5% per year thereafter, down from 8% and 7% respectively. We also assumed that health care costs would increase at 9% per year rather than 8% per year. Mortality is now based on a unisex mortality table. In past years we had used sex-based mortality tables for funding purposes only. Based on actual experience in 1981-1985, we revised the turnover disability assumptions as well as calculated retirement rates. We now assume 69% of those receiving retirement benefits will be eligible for C.O.L.A., up from 60%. Bonds are now valued at book value in computing the actuarial value of assets.

Investment Performance

During the 1986 fiscal year, the investment return rate, based upon market values, was more than 25% . . . even higher than last year's record rate of 22%. Based upon the three-year smoothing approach used to determine valuation assets, the return rate during fiscal year 1986 was 17.95%.

This excellent investment performance was a major factor behind the increase in accrued benefit funding ratio from 93.9% to 102%.

Salary Increases

Another important factor affecting costs and liabilities under PERS is the impact of inflation on salary increases. For the third straight year, salary increases on an average were less than the actuarial assumption. As of June 30, 1986, the average annual salary was \$30,200 . . . an increase of 5.3% over the prior year. Accordingly, there were small actuarial gains from less-than-anticipated salary increases which contributed, along with the excellent investment performance, to lower employer contribution rates and the increase in the funding ratio.

Membership Statistics

For the third year in a row, there was a large increase in the average age of the active PERS members. In the last year, however, average age has increased at .56 per year. This phenomenon continues to put upward pressure on costs and liabilities . . . thus dampening the beneficial affects of actuarial gains from investment and salary increases.

Retiree Statistics

There was a large increase in the number of new retirees during FY86, with 448 new benefit recipients added to the pension rolls. Average age at retirement showed a drop of almost half a year. This statistic continues to be volatile, with the average age for service retirements vacillating between 57 1/2 and 59 1/2 for the last several years.

Conclusions

Primarily due to the excellent investment performance during FY86 and the change in actuarial assumptions, employer contribution rates decreased for most political subdivisions. Cost containment measures in the retiree health program, as well as a general slowing of medical inflation, both contributed to actuarial gains from health inflation.

Section 1.6 ACTUARIAL BASIS

Valuation of Liabilities

- A. Actuarial Method Projected Unit Credit. The unfunded accrued benefit liability is amortized over 25 years. Actuarial funding surpluses are amortized over five years.
- B. Method For Accumulated Plan Benefit Values The actuarial present value of accumulated plan benefits (the term used for Financial Accounting Standards Board purposes) and present value of vested accumulated benefits are a measure of plan benefits which have been earned to date. These are not only a valuation of retirement benefits, but also of deferred vested, death benefits, and other ancillary benefits. Earnings and service for benefit purposes which are expected to be earned after the valuation date are excluded from these values.

The actuarial assumptions used to determine these values are identical to those used for the funding purposes.

In estimating accumulated benefits, final average compensation is based on compensation data in the possession of the actuary.

C. Actuarial Assumptions -

1.	Interest	9%	per	year,	compounded	annually,
		net	of '	Investme	ent expenses	•

- Salary Scale
 9.5% per year for the first five years of employment and 5.5% per year thereafter.
- 3. Health Cost Inflation 9% per year.
- 4. Mortality 1984 Unisex Pension Mortality Table set back 1-1/2 years.
- 5. Turnover

 Based upon the 1981-85 actual total turnover experience. (See Table 1).
- Incidence rates in accordance with Table 2. Post-disability mortality in accordance with rates published by the Pension Benefit Guaranty Corporation to reflect mortality of those receiving disability benefits under Social Security. Disabilities are assumed to be occupational 85% of the time for Police/Fire, 35% for "Others".

William M. Mercer-Meidinger, Incorporated

	Retirement experience 3.				
--	--------------------------	--	--	--	--

8. Spouse's Age Wives are assumed to be four years younger than husbands.

9. Contribution Refunds

100% of those terminating after age
35 with five or more years of
service will leave their
contributions and thereby retain
their deferred vested benefit. All
others who terminate are assumed to
have their contributions refunded.

10. C.O.L.A. 69% of those receiving retirement benefits will be eligible for C.O.L.A.

11. Expenses No loading for expenses.

Valuation of Assets

Based upon the three-year average ratio between market and book values of the System's assets, except that bonds are carried at book value. Assets are accounted for on an accrued basis.

Valuation of Medical Benefits

Medical benefits for retirees are provided by the payment of premiums from the trust fund. A pre-65 cost and lower post-65 cost (due to Medicare) were assumed such that the total rate for all retirees equals the present premium rate. These medical premiums are then increased with the health inflation assumption. The actuarial cost method used for funding retirement benefits is also used to fund health benefits.

TABLE 1 ALASKA PERS

TOTAL TURNOVER ASSUMPTIONS

Select Rates During the Fi of Empl	rst 10 Ye oyment			Ultimate Rates After the Fir of Empl	st 10 Years
Police and Fi	<u>re</u> :				
Year of Employment	20-29	ge at Hir <u>30-39</u>	40+	Age	Rate
1 2 3 4 5 6 7 8 9	.39 .18 .12 .11 .07 .06 .05 .05	.28 .19 .14 .13 .09 .09 .09 .06 .04	.22 .16 .13 .12 .11 .08 .08 .08 .08	20-29 30-45 46+	.03 .02 .01
Others:				•	
Year of Employment	A 20-29	ge at Hir <u>30-39</u>	e 40+	<u>Age</u>	Rate
1 2 3 4 5 6 7 8 9	.34 .26 .21 .18 .16 .15 .12 .12	.26 .21 .17 .14 .13 .10 .09 .08	.20 .15 .13 .10 .09 .09 .09 .09	20-45 46+	.065 .05

TABLE 2 ALASKA PERS William M. Mercer-Meidinger, Incorporate DISABILITY RATES ANNUAL RATES PER 1,000 EMPLOYEES

Age	Police & Fire Rate	"Other" Member Rate
20 21 22 23 24 25	.88 .89 .90 .91 .93	.28 .28 .29 .29 .30
26	.95	.30
27	.98	.31
28	1.00	.32
29	1.03	.33
30	1.05	.34
31	1.08	.34
32	1.10	.35
33	1.13	.36
34	1.16	.37
35	1.20	.38
36 37 38 39 40	1.24 1.29 1.34 1.39	.40 .41 .43 .44
41 42 43 44 45	1.50 1.59 1.70 1.85 2.03	.48 .51 .54 .59
46	2.20	.70
47	2.39	.76
48	2.59	.83
49	2.79	.89
50	3.00	.96
51	3.25	1.04
52	3.58	1.14
53	3.98	1.27
54	4.44	1.42
55	5.00	1.60
56	5.74	1.84
57	6.68	2.14
58	7.63	2.44
59	9.00	2.88
60	10.54	3.37
61	12.19	3.90
62	14.13	4.52
63	16.31	5.22
64	18.63	5.96

TABLE 3

ALASKA PERS

RETIREMENT RATES

<u> </u>	lge	Police & Fire Rate	"Other" Member Rate
	50 51	.17 .11	.06 .04
	52	.11	.04
	53 54	.12 .12	.04 .05
	55 56	. 30	.17 .15
	57	.21 .21	.12
	58 59	.12 .12	.13 .16
	60	.21	.26
	61 · 62	.21 .25	.25 .43
٠,	63	•33	.63
64	& Up	1.00	1.00

For ages less than 50, employees are assumed to retire two years after the earliest age they are eligible to retire.

Section 2.3(c)
DEVELOPMENT OF AVERAGE EMPLOYER CONTRIBUTION RATE - FY88 & FY89
ALL MEMBERS
TOTAL SYSTEM (in thousands)

Consc	olidated Rate		
(1)	Total Normal Cost	. \$	130,629
(2)	Total Salaries		890,091
(3)	Normal Cost Rate for All Members, (1) / (2)		14.68%
(4)	Average Member Contribution Rate		4.31%
(5)	Consolidated Rate, (3) - (4)		10.37%
Past	Service Rate		
(1)	Present Value of Accrued Benefits	\$ 1	,556,610
(2)	Valuation Assets	1	,587,599
(3)	Total Unfunded Liability, (1) - (2)		(30,989)
(4)	25-Year Amortization Factor		4.239720
(5)	Past Service Payment, (3) / (4)	\$	(7,309)
(6)	Total Salaries		890,091
(7)	Past Service Rate, (5) / (6)		(,82%)
Tota	1 Employer Contribution Rate		9.55%

	FISCAL June 30, 1987	YEAR ENDED June 30, 1986
Beginning Equities & Reserves	\$1,739,843,490	\$1,295,535,618
Additions:		
Employees' Contributions		
Akutan, City of Alaska, State of Alaska Housing Finance Corporation Alaska Municipal League Alaska State Housing Authority Alaska Unorganized Borough Schools Alaska, University of Alaska, University of, Geophysical Inst. Aleutian Region School District Anchorage, Municipality of Anchorage, Municipality of, Parking Auth. Anchorage School District Annette Island School District Barrow, City of Bartlett Memorial Hospital Bering Straits School District Bethel, City of Bristol Bay Borough Bristol Bay Borough School District Bristol Bay Housing Authority Chatham School District Chugach Region School District Copper River Region Housing Authority Copper River School District Cordova, City of Cordova Community Hospital Cordova Public Schools Craig, City of Craig School District Dillingham, City of Dillingham City School District Emmonak, City of Fairbanks, City of Fairbanks Municipal Utility System Fairbanks North Star Borough School		6,325 23,392,421 66,113 4,597 171,845 (3,782) 2,748,532 131,977 14,157 4,020,282 (12,587) 1,573,487 22,604 14,658 -0- 137,484 20,141 35,926 17,994 -0- 14,594 4,776 -0- 30,501 58,322 35,323 19,204 17,435 1,703 69,462 43,313 -0- 641,664 357,445 434,724
District Fort Yukon, City of Galena, City of Galena City Schools	791,836 1,386 48,184 16,437	657,777 6,023 34,499 15,171

	FISCAL	YEAR ENDED
	June 30, 1987	June 30, 1986
Additions - Continued:		
Employees' Contributions		
Haines Borough	6,647	4,923
Haines, City of	16,123	29,524
Homer, City of	191,305	-0-
Hoonah, City of	33,060	21,943
Hoonah City Schools	5,358	16,458
Hydaburg City School District	3,349	9,317
Iditarod Area School District	82,161	77,662
Juneau, City and Borough of	(118,974)	973,373
Juneau Borough School District	195,756	166,172
Kake, City of	(21,524)	9,392
Kashunamiut School District	17,078	16,101
Kenai, City of	189,515	116,905
Kenai Peninsula Borough	486,109	309,601
Kenai Peninsula Borough School District	390,670	297,666
Ketchikan, City of	285,182	246,364
Ketchikan Gateway Borough	118,903	71,736
Ketchikan Gateway Borough School		
District	99,321	47,756
King Cove, City of	22,970	22,173
King Cove City School District	12,444	8,861
Kodiak, City of	211,960	151,376
Kodiak Island Borough	124,601	76,634
Kodiak Island Borough School District	154,944	161,320
Kotzebue, City of	122,261	121,876
Kuspuk School District	54,537	45,970
Lake and Peninsula School District	45,798	36,131
Lower Kuskokwim School District	540,771	317,291
Lower Yukon School District	175,443	130,107
Matanuska-Susitna Borough	322,139	266,666
Matanuska-Susitna Borough School	170 005	267 626
District	470,895	367,636
Nemana, City of	16,348	14,362
Nenana City Schools	14,550	11,805
Nome, City of	118,314	81,615
Nome City Schools	68,271	39,612 30,212
Nome Public Utilities	32,981	30,212
North Pacific Fisheries Management	20 /157	24,816
Council	28,457 55,095	25,405
North Pole, City of	1,990,216	1,358,465
North Slope Borough	427,116	280,450
North Slope Borough School District Northwest Arctic Borough	33,917	-0-
Northwest Arctic School District	242,516	225,610
HOLDINGS CULCUL SCHOOL DISCHICE		250,020

	FISCAL June 30, 1987	YEAR ENDED June 30, 1986
Additions - Continued:		<u> </u>
Employees' Contributions		
Palmer, City of	103,780	119,865
Pelican, City of	6,741	5,062
Petersburg, City of	130,126	86,183
Petersburg General Hospital	41,767	29,854
Pribilof Region School District	12,602	3,091
Railbelt School District	27,397	26,924
Ruby, City of	7,023	712
Saint Paul, City of	49,134	46,135
Saint Mary's, City of	9,090	1,485
St. Mary's School District	22,696	-0-
Sand Point, City of	45,936	20,858
Sand Point City School District	5,430	7,753
Saxman, City of	1,349	716
Scammon Bay	-0-	231
Selawick, City of	709	-0-
Seward, City of	129,715	104,106
Seward General Hospital	54,894	19,164
Sitka, City and Borough of	210,054	164,680
Sitka Community Hospital	90,170	67,508
Sitka Borough School District	75,747	77,717
Skagway, City of	21,205	24,293
Soldotna, City of	5,318	90,175
Southeast Islands School District	36,764	18,690
Southeast Regional Resource Center	13,889	22,838
Southwest Region Schools	78,965	49,715
Special Education Service Agency	4,382	-0-
Tanana, City of	13,591	13,102
Tanana City School District	10,560	7,445
Terminated Employers	23,423	1,270
Thorne Bay, City of	9,720	4,876
Unalakleet, City of	15,935	11,674
Unalaska, City of	136,062	83,778
Unalaska City Schools	7,982	9,911
Valdez, City of	249,429	202,676
Valdez City Schools	97,611	55,198
Wainwright, City of	11,781	2,033
Wasilla, City of	22,959	25,984
Whittier, City of	40,694	25,813
Wrangell, City of	124,052	66,765
Wrangell City Schools	2,859	18,053
Yukon Flats School District	38,047	37,322
Yukon Koyukuk School District	64,852	55,276
AND TOTAL TOUGHT STOCK TO	37,032	
Total Employees' Contributions	\$ 51,827,625	\$ 42,626,327

	FISCAL	YEAR ENDED
	June 30, 1987	June 30, 1986
Addition Continued.		
Additions - Continued: Employers' Contributions		
	10.001	** **
Akutan, City of	10,664	14,994
Alaska, State of	64,361,897	71,213,438
Alaska Housing Finance Corporation	6,487	164,358 29,278
Alaska Municipal League Alaska State Housing Authority	10,716 456,047	552,241
Alaska, University of	3,490,741	7,223,311
Alaska, University of, Geophysical Inst.	78,372	352,258
Aleutian Region School District	2,515	29,655
Anchorage, Municipality of	11,676,701	13,406,109
Anchorage, Municipality of Parking Auth.	8,900	47,215
Anchorage School District	5,227,693	6,014,300
Annette Island School District	41,287	51,088
Barrow, City of	16,564	65,313
Bartlett Memorial Hospital	343,503	-0-
Bering Straits School District	285,217	367,882
Bethel, City of	53,644	70,975
Bristol Bay Borough	92,738	116,134
Bristol Bay Borough School District	49,991	64,207
Bristol Bay Housing Authorty	9,475	-0-
Chatham School District	24,157	41,825
Chugach Region School District	334	2,392
Copper River Region Housing Authority	2,628	-0-
Copper River School District	15,712	97,005
Cordova, City of	182,570	160,186
Cordova Community Hospital Cordova Public Schools	(17,942) 66,574	88,733 65,405
Craig, City of	5,331	52,582
Craig School District	7,781	4,559
Dillingham, City of	42,507	112,180
Dillingham School District	72,675	167,815
Emmonak, City of	38,777	-0-
Fairbanks, City of	1,876,267	2,066,134
Fairbanks Municipal Utility System	1,092,135	1,283,387
Fairbanks North Star Borough	316,477	1,143,233
Fairbanks North Star Borough School		
District	468,071	1,558,941
Fort Yukon, City of	106	12,613
Galena, City of	69,192	106,137
Galena City Schools	6,680	33,709
Haines Borough	-0- (63)	9,396
Haines, City of	(62)	66,288
Homer, City of	1,472,633	-0-

	FISCAL	YEAR ENDED
	June 30, 1987	June 30, 1986
Additations		
Additions - Continued: Employers' Contributions		
Hoonah, City of	54,019	59, 847
Hoonah City Schools	28,087	63,865
Hydaburg City School District	3,184	17,884
Iditared Area School District	48,951	135,277
Juneau, City and Borough of	1,365,412	2,537,022
Juneau Borough School District	440,282	592,472
Kake, City of	2,788	36,866
Kashunamiut School District	30,968	29,138
Kenai, City of	229,030	344,986
Kenai Peninsula Borough	784,125	984,059
Kenai Peninsula Borough School District	849,415	1,135,633
Ketchikan, City of	1,410,612	1,023,728
Ketchikan Gateway Borough	227	181,184
Ketchikan Gateway Borough School		,
District	200,168	120,459
King Cove, City of	773	47,327
King Cove City School District	19,531	25,205
Kodiak, City of	468,165	543,247
Kodiak Island Borough	78,480	192,632
Kodiak Island Borough School District	185,368	395,293
Kotzebue, City of	103,048	302,429
Kuspuk School District	34,196	95,250
Lake and Peninsula School District	1,835	94,123
Lower Kuskokwim School District	68,223	798,192
Lower Yukon School District	228,266	347,456
Matanuska-Susitna Borough	435,328	628,500
Matanuska-Susitna Borough School		· ·
District	794,522	1,123,290
Nenana, City of	(250)	35,171
Nenana City Schools	31,991	36,854
Nome, City of	155,637	240,720
Nome City Schools	166,379	178,846
Nome Public Utilities	397	46,068
North Pacific Fisheries Management		
Council	1,278	47,099
North Pole, City of	55,452	101,085
North Slope Borough	(5,008)	2,632,858
North Slope Borough School District	` 218,003	635,658
Northwest Arctic Borough	24,689	-0-
Northwest Arctic School District	18,044	477,368
Palmer, City of	229,817	252,833
Pelican, City of	13,961	13,823
Petersburg, City of	417,659	353,697

	FISCAL	YEAR ENDED
·	June 30, 1987	June 30, 1986
Additions - Continued:		
Employers' Contributions		
Petersburg General Hospital	128,493	97,341
Pribilof Region School District	(1,404)	39,872
Railbelt School District	34,502	59,305
Ruby, City of		1,236
Saint Mary's, City of	23,551	2,912
Saint Mary's School District	92,202	-0-
Saint Paul, City of	4,340	81,360
Sand Point, City of	7,997	42,841
Sand Point City School District	4,214	19,745
Saxman, City of	2,976	12,822
Scammon Bay	(8,906)	545
Selawick, City of	1,220	-0-
Seward, City of	233,644	304,052
Seward General Hospital	151,819	86,899
Sitka, City and Borough of	647,688	620,607
Sitka Community Hospital	259	179,570
Sitka Borough School District	189,214	259,656
Skagway, City of	42,783	51,201
Soldotna, City of	227,630	299,780
Southeast Islands School District	8,621	40,557
Southeast Regional Resource Center	(215)	56,127
Southwest Region Schools	(43)	131,915
Special Education Service Agency	7,504	-0-
Tanana, City of	3,642	36,923
Tanana City School District	6,544	20,899
Terminated Employers	-0-	(1,270)
Thorne Bay, City of	14,008	13,722
Unalakleet, City of	4,559	53,446
Unalaska, City of	(1,426)	209,305
Unalaska City Schools	13,888	28,356
Valdez, City of	191,283	446,299
Valdez City Schools	83,711	195,317
	13,964	2,852
Wainwright, City of	16,993	60,474
Wasilla, City of	42,541	70,036
Whittier, City of	164,182	171,141
Wrangell, City of		
Wrangell City Schools	45,102	42,308

		YEAR ENDED
	June 30, 1987	June 30, 1986
Additions - Continued: Employers' Contributions		
Yukon Flats School District Yukon Koyukuk School District	316 -0-	94,326 131,501
Total Employers' Contributions	\$ 103,568,300	\$ 127,726,698
Investment Income	230,013,445	\$ 182,140,000
Market Value Adjustment	(27,799,173)	\$ 159,873,421
DVA, Long Term Care, RIP Admin	201,592	-0-
Total Additions	\$ 357,811,789	\$ 512,366,446
Equities, Reserves and Additions	\$2,097,655,279	\$1,807,902,064
Deductions: Administrative Expenses Personal Services Travel and Moving Contractual Services Supplies and Materials Machinery/Equipment Grants/Interagency Services	969,192 36,861 446,940 11,758 14,694 3,505,528	1,045,871 39,775 482,296 12,683 15,852 1,970,500
Total Administrative Services	4,984,973	3,566,977
Employees' Contributions and Interest Refunded Provision for Loan Losses	10,524,697 4,221,000	9,165,313 -0-
Medical Benefit Expenses Retirement Benefits Paid	10,255,570 57,473,263	9,410,481 45,915,803
Total Deductions	\$ 87,459,503	\$ 68,058,574
Ending Equities and Reserves - Adjusted	\$2,010,195,776	\$1,739,843,490

STATE OF ALASKA
PUBLIC EMPLOYEES' RETIREMENT SYSTEM
Benefit Payments Breakdown
Fiscal Year 1987

Benefit Type	Totals All Categories	Regular <u>Retirees</u>	Peace Officer Retirees	Fireman Retirees	*Elected Off. Retirees
Base Benefits Cost of Living Allowance Non-Occupational Death Occupational Death Disability Benefits Post Retirement Pension Adjustment Voluntary Annuity Lump Sum Benefit Medical Benefits Totals by Membership Category Totals all Benefits	\$42,851,139 3,706,433 1,274,824 292,203 1,354,451 7,622,498 6,661 365,054 10,255,570	\$38,206,429 3,294,962 1,202,658 109,120 918,318 6,841,062 6,661 365,054 \$60,591,883	\$3,901,771 340,158 36,879 163,355 281,632 608,534 -0- 463,201 \$5,795,530	\$662,679 59,304 33,805 19,728 154,501 158,667 -0- 106,753 \$1,195,437	\$80,260 12,009 1,482 -0- 14,235 -0- 37,997 \$145,983

* Active and Retired Elected Public Officers as of October 13, 1976, were mandatorily transferred to the Elected Public Officers Retirement System (EPORS), which was established by Legislation on January 1, 1976. Under current Legislation, all other elected officials may participate in the PERS or the TRS, or do not participate at their option.

21

59

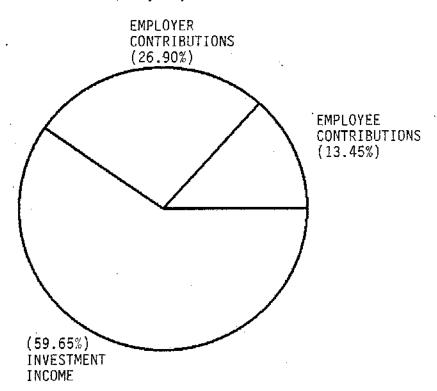
256

5,332

5,668

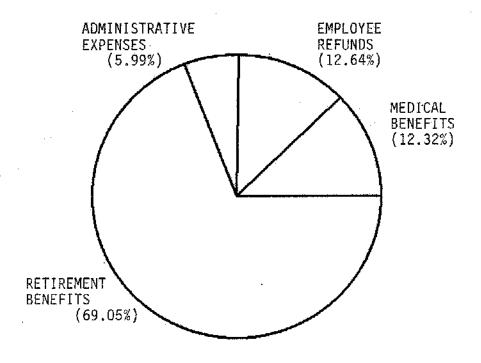
Retirees (6/30/87)

STATE OF ALASKA
PUBLIC EMPLOYEES' RETIREMENT SYSTEM
YEAR ENDED JUNE 30, 1987
INCOME AND RECEIPTS
\$385,610,962



STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM YEAR ENDED JUNE 30, 1987

DISBURSEMENTS \$83,238,503

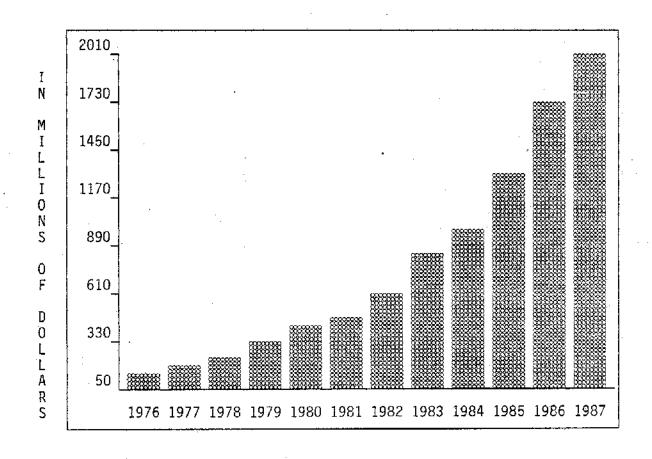


STATE OF ALASKA
PUBLIC EMPLOYEES' RETIREMENT FUND
Historical Data
Fiscal Years 1976 through 1987
(cents omitted)

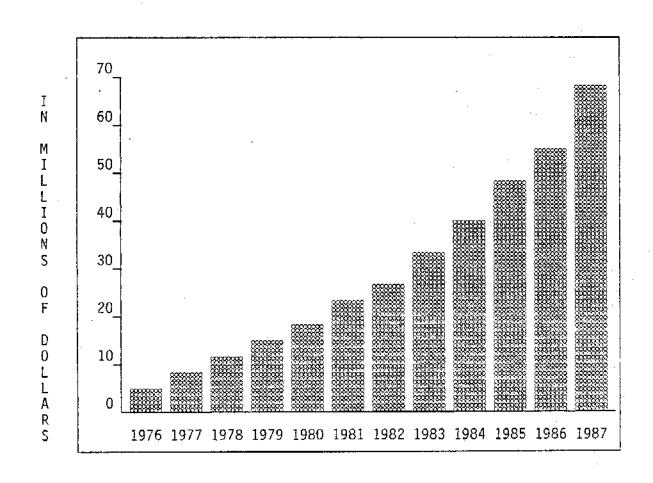
Net Investment Income During Fiscal Year	8,367,857	12,602,465	16,612,594	25,177,371	37,489,889	50,366,085	51,408,749	85,609,413	100,972,192	112,261,296	182,140,000	197,993,272
Employees' Contributions and Interest Refunded During Fiscal Year	3,758,719	3,816,748	4,345,592	4,978,848	5,759,464	7,006,149	7,192,268	7,682,104	8,888,000	9,553,211	9,165,313	10,524,697
Benefits Paid Including Medical Expenses & Death Benefits	4,842,542	7,607,162	11,005,738	14,947,478	17,775,811	22,803,960	27,438,183	32,942,505	39,998,747	48,836,818	55,326,284	67,728,833
Employees' Contributions During Fiscal Year	12,348,074	13,438,538	16,176,433	17,631,003	20,898,263	24,321,437	28,918,210	32,594,208	36,764,836	39,577,155	42,626,327	51,879,240
Employers' Contributions During Fiscal Year	22,712,558	34,881,182	38,735,575	47,613,575	56,236,318	71,832,706	88,332,287	99,726,866	114,245,148	123,465,277	127,726,698	103,718,277
Assets Fiscal Year End	141,988,644	190,954,572	246,662,043	316,675,507	402,125,897	493,075,440	609,103,807	837,559,610	964,702,019	1,295,535,618	1,739,843,490	2,010,195,776
Fiscal	1976	1977	1978	* 1979	1980	1981	1982	1983	1984	1985	1986	1987

* Figures presented on an accrual basis effective FY 1979.

STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND TOTAL ASSETS FISCAL YEARS 1976 THROUGH 1987



STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM BENEFITS PAID FISCAL YEARS 1976 THROUGH 1987



STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1987

<u>Employer</u>	<u>Percentage</u>
Akutan	9.81
Alaska, State of Policemen, Firemen Inland Boatmen	15.74 14.44
All Other Employees Alaska Housing Finance Corporation Alaska Municipal League	11.30 0.42 7.43
Alaska State Housing Authority Alaska, University of	11.62 3.09
Alaska, University of, Geophysical Institute	3.09
Aleutian Region School District Anchorage, Municipality of	0.00 12.00
Anchorage, Municipality of Parking Authority Anchorage School District Annette Island School District	3.13 14.15 8.74
Barrow, City of Bartlett Memorial Hospital	2.91 8.06
Bering Straits School District Bethel, City of	7.98 11.15
Bristol Bay Borough Bristol Bay Borough School District Bristol Bay Housing Authority	10.88 13.45 11.10
Chatham School District Chugach Regional School District	6.71 0.00
Copper River Basin Regional Housing Authority Copper River School District	13.57 3.67
Cordova, City of Cordova Community Hospital Cordova Public Schools	13.48 0.00 15.23
Craig, City of Craig School District	0.97 11.86
Dillingham, City of Dillingham City School District	5.52 9.07
Emmonak, City of Fairbanks, City of Fairbanks, Municipal Utility System	11.68 15.44 15.44
Fairbanks Municipal Utility System Fairbanks North Star Borough Fairbanks North Star Borough School District	3.45 3.45
Fort Yukon, City of Galena, City of	0.00 8.32
Galena City Schools Haines Borough	2.25 0.00 0.00
Haines, City of Homer, City of Hoonah, City of	9.97 9.11
Hoonah City Schools Hydaburg City School District Iditarod Area Schools	17.86 3.94 3.96

STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1987

STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1987

Continued

	Employer	<u>Percentage</u>
Saxman, City of		8.38
Selawik, City Council		9.97
Seward, City of		10.66
Seward General Hospital		16.50
Sitka, City and Borough of		18.86
Sitka Community Hospital		0.00
Sitka Borough School Distri	ct	12.19
Skagway, City of		6.45
Soldotna, City of		14.34
Southeast Islands School Di	strict	1.84
Southeast Regional Resource	Center	0.00
Southwest Region Schools		0.00
Special Education Service A	gency	9.97
Tanana, City of		1.10
Tanana City School District		3.20
Thorne Bay, City of		8.12
Unalakleet, City of	•	0.55
Unalaska, City of		0.00
Unalaska City Schools		9.57
Valdez, City of		4.95
Valdez City Schools		5.84
Wainright, City of		9.97
Wasilla, City of		3.49
Whittier, City of		7.82
Wrangell, City of		10.51
Wrangell City Schools		15.23
Yukon Flats School District		0.04
Yukon Koyukuk School Distri	ct	0.00

TEACHERS' RETIREMENT SYSTEM



STATE OF ALASKA

TEACHERS' RETIREMENT SYSTEM

BOARD MEMBERS

NAME .	TERM EXPIRES
DOROTHY WELLS, CHAIRPERSON	JUNE 30, 1990
MERRITT C. OLSON, VICE-CHAIRMAN	JANUARY 31, 1989
CHARLES M. ARTEAGA	JANUARY 31, 1990
GARRIS (BOB) COVINGTON	JANUARY 31, 1988
STEPHANIE WINSOR	JUNE 30, 1990



Certified Public Accountants

Peat Marwick Main & Co. 601 West Fifth Avenue, Suite 700 Anchorage, AK 99501

Division of Retirement and Benefits and Members of the Alaska Teachers' Retirement Board State of Alaska Teachers' Retirement System:

We have examined the statements of net assets available for benefits of the State of Alaska Teachers' Retirement System as of June 30, 1987 and 1986, and the related statements of changes in net assets available for benefits for the years then ended and the statement of accumulated plan benefits as of June 30, 1986. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial status of the Plan as of June 30, 1986, and the changes in its financial status for the year then ended, and information regarding net assets available for benefits and changes therein as of and for the years ended June 30, 1987 and 1986, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Feat Marrick Main & Co.

September 15, 1987

Statements of Net Assets Available for Benefits

June 30, 1987 and 1986

(in thousands)

		1987	1986
Assets:			
Investments, at fair value:			
Short-term investments	\$	2,800	20,000
United States Government securities		445,972	370,699
Corporate bonds, notes and debentures		116,438	
Common stocks		392,601	
Foreign stocks		134,420	71,491
Real estate equity funds		75,598	64,860
Financial futures			1
Total investments		1,167,829	939,386
Loans and mortgages, at cost, net of allowance for loan losses of \$3,694 in 1987		112,421	169,653
Receivables:			
Contributions		7,935	8,470
Accrued interest and dividends Total receivables	•	13,188 21,123	13,127 21,597
Cash in interest-bearing accounts		4,017	11,907
Total assets		1,305,390	1,142,543
Liability - accrued expenses		1,926	893
Net assets available for benefits	\$	1,303,464	1,141,650

See accompanying notes to financial statements.

Statements of Changes in Net Assets Available for Benefits

Years ended June 30, 1987 and 1986

(in thousands)

		1987	<u> 1986</u>
Additions:			
Investment income:			
Net appreciation (depreciation) in fair value of investments (note 5) Interest Dividends	\$	(15,677) 69,076 8,734	103,643 75,722 7,054
Net realized gains		69,576	36,397
Total investment income before provision		434 700	000 016
for losses on loans and mortgages		131,709	222,816
Provision for losses on loans and mortgages Net investment income	•	3,694 128,015	222,816
Contributions:			
State of Alaska and other employers		58,177	69,276
Employees		34,159	32,039
Total contributions		92,336	101,315
Total additions		220,351	324,131
Deductions:			
Benefits paid:			
Retirement		46,183	38,476
Medical		4,613	
Total benefits paid		50,796	42,900
Refunds to terminated employees		4,239	3,311
Administrative expenses		3,502	2,603
Total deductions		58,537	48,814
Net increase		161,814	275,317
Net assets available for benefits: Beginning of year		1,141,650	866,333
End of year	\$	1,303,464	1,141,650

See accompanying notes to financial statements.

Statement of Accumulated Plan Benefits

June 30, 1986

(in thousands)

Actuarial present value of accumulated benefits:	
Vested benefits: Participants currently receiving payments	\$ 363,263
Other participants	608,934
Total vested benefits	972,197
Nonvested benefits	97,004
Total actuarial present value of accumulated benefits	\$ 1,069,201

At June 30, 1985, the total actuarial present value of accumulated benefits was \$951,913. During the year ended June 30, 1986, the actuarial present value of accumulated plan benefits increased \$26,982 as a result of changes in the actuarial assumptions (notes 3 and 6).

See accompanying notes to financial statements.

Notes to Financial Statements

June 30, 1987 and 1986

(1) Description of State of Alaska Teachers' Retirement System (Plan)
The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

The Plan is a joint-contributor plan created by State of Alaska Statutes effective July 1, 1955. The Plan was established to provide benefits for teachers and other eligible participants.

Pension Benefits

General employees with eight or more years of credited service are entitled to annual pension benefits beginning at normal retirement age (55) equal to 2% of their highest three-year average monthly compensation for each year of service. The Plan permits early retirement at age 50. Employees may elect to receive their pension benefits in the form of a joint and survivor annuity. Effective January 1, 1987, a married member who retires must receive his benefit in the form of a joint and survivor annuity unless the member's spouse consents to another form of benefit. Minimum benefits for employees eligible for retirement are \$25 per month for each year of credited service. In addition, major medical benefits are provided.

Death and Disability Benefits

- If an active employee, first hired under the Plan before July 1, 1982, is participating in the supplemental contribution provision, dies and is survived by a dependent child or children, the employee's spouse and children receive a survivor's allowance from the Plan. The amount of the survivor's allowance is determined by the participant's base salary and the number of dependent children. If an active employee was first hired under the Plan on or after July 1, 1982, is not participating in or eligible for coverage under the supplemental contribution provision and dies from an occupational cause, the spouse or beneficiary will receive a monthly pension from the Plan. The amount of the pension changes on the date the employee's normal retirement would have occurred if the employee had lived. The new benefit is based on the employee's average base salary at the time of his/her death and the credited service that would have accrued if the employee had lived and continued to work until normal retirement age.
- If an employee with five or more paid-up years of membership service is not eligible for normal retirement benefits and becomes permanently disabled, the employee is entitled to a monthly benefit. The annual disability benefit is equal to 50% of the base salary at time of disablement plus an additional 10% of his/her base salary for each dependent child up to a maximum of four children.

Notes to Financial Statements

Retirement Incentive Program

Legislation passed in May 1986 established a retirement incentive program designed to encourage eligible employees to voluntarily retire in order to reduce personnel service costs. The program was available to eligible employees until June 30, 1987, except for eligible University of Alaska employees where the program is available from October 1, 1986 to September 30, 1987.

The Flan is to be reimbursed by the participating agency or employer of the program within three years after the end of the fiscal year in which a member retires. The amount of reimbursement is the actuarial equivalent of the difference between the benefits the member receives after the addition of the retirement incentive under the program and the amount the member would have received without the incentive, less any amount the participant has paid as part of retiring under the program. Participating members are indebted 21% of their annual compensation for the school year in which the member terminates employment to participate in the program. An outstanding indebtedness at the time a participant is appointed to retirement will result in an actuarial adjustment to his/her benefit.

The effect of the retirement incentive program on the actuarial present value of accumulated benefits or the related contributions due from employers and employees electing to fund their early retirement has not been determined.

(2) Summary of Significant Accounting Policies

Valuation of Investments

Investments, other than real estate equity fund and loans and mortgages, are carried at market value to reflect the asset values of the Plan as determined by the last quoted sales price at June 30, 1987 and 1986.

Real estate equity funds are stated at estimated market value as determined by the independent management of the investment accounts. These investments do not have a readily available market and generally represent long-term investments.

Loans and mortgages are serviced by the institution from which the loan is purchased. The policy of the Plan is to hold these investments until maturity and, accordingly, the investments are stated at cost, less an allowance for estimated loan losses. Loans and mortgages include approximately \$5,915,000 and \$2,078,000 for 1987 and 1986, respectively, of other real estate owned. Other real estate owned represents properties on which the Plan has foreclosed and is holding with the intent to resell.

Notes to Financial Statements

The Commissioner of Revenue has the statutory authority to invest the moneys of the Plan. This authority is delegated to investment officers of the Treasury Division of the Department of Revenue. Alaska Statute provides for the investment in United States Treasury or agency securities; corporate debt securities; preferred and common stock, commercial paper; securities of foreign governments, agencies and corporations; foreign time deposits, gold bullion; futures contracts for the purpose of hedging; real estate investment trusts; deposits within Alaska savings and loans and mutual savings banks; deposits with state and national banks in Alaska, guaranteed loans; notes secured by mortgages; certificates of deposit and banker's acceptances.

The Plan's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the Plan at June 30, 1987.

Deposits:

- Category 1. Insured or collateralized with securities held by the state or its custodian in the state's name.
- Category 2. Collateralized with securities held by the pledging financial institution's trust department or custodian in the state's name.
- Category 3. Uncollateralized.

Investments:

- Category 1. Insured or registered for which the securities are held by the state or its custodian in the state's name.
- Category 2. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the state's name.
- Category 3. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent but not in the state's name.

Notes to Financial Statements

			ategory thousand	s) 3	Carrying value	Market value of securities
Deposits - cash	\$	- 4,017	. -	_	4,017	4,098
Investments: Repurchase agreements		2,800	-	_	2,800	2,857
U.S. Government securities		445,972	-	_	445,972	445,972
Corporate bonds		116,438		-	116,438	116,438
Common stocks		392,601			392,601	392,601
Foreign stocks Real estate equity funds	,	75,598	134,420	=	134,420 75,598	134,420 75,598
	\$	1,037,426	134,420	=	1,171,846	1,171,984

Treasury investment policy requires that securities underlying the repurchase agreements must have a minimum market value of 102% of the cost of the repurchase agreement. There were no violations of this policy during the dates covered by this statement.

Contributions Receivable

Contributions from employees and employers for service through June 30 are accrued. These contributions are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

Investment Income Receivable

Investment income receivable represents amounts earned but not yet received as of June 30. These amounts are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

(3) Actuarial Present Value of Accumulated Benefits

Accumulated benefits are those future periodic payments, including lump-sum distributions, that are attributable under the Plan's provision to the service employees have rendered. Accumulated benefits include benefits expected to be paid to retired or terminated employees or their beneficiaries, beneficiaries of employees who have died, and present employees or their beneficiaries. Benefits under the Plan are based on employees' compensation during their highest three years of credited service. The accumulated benefits for active employees are based on their average compensation during the three years ending on the date that the benefit information is presented (the valuation date). Benefits payable under all circumstances—retirement, death, disability, and termination of employment—are included, to the extent they are deemed attributable to employee service rendered to the valuation date.

Notes to Financial Statements

The actuarial present value of accumulated benefits is determined by an actuary from William M. Mercer-Meidinger Incorporated and is that amount that results from applying actuarial assumptions to adjust the accumulated benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The significant actuarial assumptions used in the valuations as of June 30, 1986 are as follows:

- a. Actuarial cost method projected unit credit, unfunded accrued benefit liability amortized over 25 years, funding surplus amortized over 5 years.
- b. Mortality basis 1984 Unisex Pension Mortality Table set back one and one-half years.
- Retirement age retirement rates based on actual experience.
- d. Interest rate 9% per annum, compounded annually, net of investment expenses.
- e. Health cost inflation 9% per annum.
- f. Salary scale increase of 6.5% for the first five years of employment and 5.5% per year thereafter.
- g. Cost of living allowance (domicile in Alaska) 54% of those receiving benefits will be eligible to receive the cost of living allowance.
- h. Contribution refunds 100% of those terminating after age thirty-five with eight or more years of service will leave their contributions and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.
- Asset valuation three-year average ratio between market and book values of the Plan's assets.

Turnover and disability assumptions are based upon actual historical occurrence rates of the Plan. The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated benefits.

Notes to Financial Statements

(4) Funding Policy

Employees' Contributions

Employees contribute 7% of their base salary as required by statute. A qualified member may make an additional contribution of 1% of his/her base salary. Contributions are collected by employers and remitted to the Plan. Present employees' accumulated contributions at June 30, 1987 were \$271,282,000.

Employer Contribution

The employers' contribution rate is determined annually on an actuarial basis.

(5) Investments

During 1987 and 1986, the Plan's investments (including investments bought, sold, as well as held during the year) appreciated (depreciated) in value as follows:

	<u> 1987</u>	<u> 1986</u>
United States Government securities Corporate bonds, notes and debentures Common stock Foreign stock Foreign bonds Real estate equity funds	\$ (21,893). (5,576) 3,984 7,211 ———————————————————————————————————	48,917 5,367 35,049 14,870 (935) 375
•	\$ (<u>15,677</u>)	103,643

(6) Change in Actuarial Assumptions

Effective July 1, 1986, the Plan adopted new actuarial assumptions. The actuarial method used is the same, however, actuarial funding surpluses are amortized over five years rather than twenty-five years. The assumed rate of interest was increased from 8% to 9% per year. The salary scale assumption was lowered to 6.5% per year for the first five years of employment and 5.5% per year thereafter, down from 8% and 7%, respectively. Health care cost inflation was increased to 9% rather than 8%. Turnover and disability assumptions were revised based on actual experience in 1981 through 1985. The method for determining accumulated Plan benefits was changed to include not only a valuation of retirement benefits but also of deferred vested, death benefits and other ancillary benefits.

Notes to Financial Statements

(7) Contingent Liabilities

The State of Alaska Public Employees' Retirement System (PERS) was a party to an action contesting application of the early retirement factors adopted by PERS in the calculation of the actuarial present value of the accumulated Plan benefits. The Alaska Supreme Court ruled in 1987 that the PERS application of the early retirement factors was incorrect. While the suit was not directed at the State of Alaska Teachers' Retirement System (TRS), its outcome indirectly affected the TRS application of actuarial retirement factors. The effect of the suit on the actuarial present value of accumulated benefits or the amount payable to retirees as a result of not using more favorable actuarial retirement factors has not been determined and, in the opinion of the TRS actuary and officials of the Department of Retirement and Benefits, will not significantly affect the Plan's financial status.

HIGHLIGHTS

This report has been prepared by William M. Mercer-Meidinger, Incorporated to:

- present the results of a valuation of the Alaska Teachers' Retirement System as of June 30, 1986;
- (2) review experience under the plan for the year ended June 30, 1986;
- (3) determine the contribution rates for the State and for each school district in the system;
- (4) provide reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The report is divided into two sections. Section 1 describes the basis of the valuation. It summarizes the plan provisions, provides information relating to the plan participants, and describes the funding methods and actuarial assumptions used in determining liabilities and costs.

Section 2 contains the results of the valuation. It includes the experience of the plan during the 1985-86 plan year, the current annual costs, and reporting and disclosure information.

The principle results are as follows:

Funding S	tatus as of June 30:	<u>1985</u> **	<u> 1986</u>
(a)	Valuation Assets*	\$ 833,617	\$1,040,173
(b)	Present Value of Accrued Benefits*	1,021,533	1,115,773
(·c.)	Accrued Benefit Funding Ratio, (a)/(b)	81.6%	93.2%
Contribut	ions for Fiscal Year	1987 & 1988	1989
(a)	Normal Cost	9.02%	9.36%
(b)	Past Service Rate	4.26%	1.80%
(c)	Total Contribution Rate	13.28%	11.16%

^{*} In thousands.

^{**} After change in assumptions.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the plan sponsor and financial information provided by the audited report from Peat, Marwick, Mitchell and Company, to determine a sound value for the plan liabilities. We believe that this value and the method suggested for funding it are in full compliance with the Governmental Accounting Standards Board, the Internal Revenue Code, and all applicable regulations.

Respectfully submitted,

Robert F. Richardson, ASA

Principal

RFR/GTS/js/jam

Sugary T. Smith
Senior Actuarial Assistant

March 27, 1987

ANALYSIS OF THE VALUATION

Investment Performance

During the 1986 fiscal year, the investment return rate, based upon market values, was even greater than last year's recordsetting performance. During the most recent plan year, the market value investment return rate was 24.6%. Using the three-year smoothing approach, valuation assets returned 17.6% during the year . . . thus leading to a very large actuarial gain from investment sources. This actuarial gain was primarily responsible for the large drop in the past service rate and the large increase in the accrued benefit funding ratio.

Health Inflation

For the second year in a row, there has been a decrease in the monthly premium to provide retiree health coverage under the TRS. For FY87, the premium is \$165 per month, down from \$168.25 from a year ago. Thus, there was a significant actuarial gain from the health inflation assumption for the first time in FY86.

Membership Statistics

As we have discussed for the last few years, there has been a steady trend upward in the average age of TRS members. For the 8.5-year period from January 1, 1977 to June 30, 1986, the average annual increase has been .34 years. In the most recent year, the increase was much larger than even this average, with an increase of .44 years. This increase in average age tends to increase costs, especially the normal cost. For the first time in several years, average credited service had a measurable increase, going from 9.54 years to 9.81 years. Salary increases last year were somewhat more, on average, than in prior years, with an increase of 7.76%.

Retiree Statistics

The number of new retirees during FY86 dropped down to 189, much fewer than the year before, but more in keeping with the statistics in prior years. Perhaps of greatest significance was the 1.11 increase in average age at retirement for the service retirements. A year ago, the average age at retirement for a service retirement was 54.95, while this year it increased to 56.06.

<u>Conclusions</u>

For the second straight year, investment performance has been instrumental in increasing the funding ratio and decreasing costs for the TRS. Also, there were significant actuarial gains generated from the less-than-anticipated retiree health insurance premium. The retirement incentive program (RIP) will probably result in significant changes in the demographic makeup of the average TRS member. In

general, a decrease in average age will lead to a decrease in the normal cost rate. As before, the most important factor will be the investment performance of the fund. With another excellent year like we have experienced during the last two, the Teachers' Retirement System might achieve full funding.

Section 1.3 ACTUARIAL BASIS

Valuation of Liabilities

A. Actuarial Method - Projected Unit Credit. Liabilities and contributions shown in the report are computed using the Projected Unit Credit method of funding. The unfunded accrued benefit liability is amortized over 25 years. Actuarial funding surpluses are amortized over five years.

The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, each participant's total pension projected to retirement with salary scale is broken down into units, each associated with a year of past or future service. The principle underlying the method is that each unit is funded in the year for which it is credited. Typically, when the method is introduced there will be an initial liability for benefits credited for service prior to that date, and to the extent that this liability is not covered by Assets of the Plan there is an Unfunded Liability to be funded over a chosen period in accordance with an amortization schedule.

An <u>Accrued Liability</u> is calculated at the valuation date as the present value of benefits credited with respect to service to that date.

The <u>Unfunded Liability</u> at the valuation date is the excess of the Accrued <u>Liability</u> over the Assets of the Plan. The level annual payment to be made over a stipulated number of years to amortize the <u>Unfunded Liability</u> is the <u>Past Service Cost</u>.

The <u>Normal Cost</u> is the present value of those benefits which are expected to be credited with respect to service during the year beginning on the valuation date.

Under this method, differences between the actual experience and that assumed in the determination of costs and liabilities will emerge as adjustments in the Unfunded Liability, subject to amortization.

B. Method For Accumulated Plan Benefit Values - The actuarial present value of accumulated plan benefits (the term used for Financial Accounting Standards Board purposes) and present value of vested accumulated benefits are a measure of plan benefits which have been earned to date. These are not only a valuation of retirement benefits, but also of deferred vested, death benefits, and other ancillary benefits. Earnings and service for benefit purposes which are expected to be earned after the valuation date are excluded from these values.

The actuarial assumptions used to determine these values are identical to those used for the funding purposes.

In estimating accumulated benefits, final average compensation is based on compensation data in the possession of the actuary.

C. Actuarial Assumptions -

1. Interest

9% per year, compounded annually, net of expenses.

2. Salary Scale

5.5% per year for the first five years of employment and 5.5% per year thereafter.

3. Health Inflation

9% per year.

4. Mortality

1984 Unisex Pension Mortality Table set back 1-1/2 years.

5. Turnover

Based upon the 1981-85 actual total turnover experience. (See Table 1).

6. Disability

Incidence rates in accordance with Table 2. Post-disability mortality in accordance with rates published by the Pension Benefit Guaranty Corporation to reflect mortality of those receiving disability benefits under Social Security.

7. Retirement Age

Retirement rates based on actual experience in accordance with Table 3.

Spouse's Age

Wives are assumed to be four years younger than husbands.

Contribution Refunds

100% of those terminating after age 35 with eight or more years of service will leave their contributions and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.

10. C.O.L.A.

54% of those receiving retirement benefits will be eligible for C.O.L.A.

11. Sick Leave

4.7 days of unused sick leave for each year of service will be available to be credited once the member is retired.

12. Expenses

Expenses are covered in the interest assumption.

Valuation of Assets

Based upon the three-year average ratio between market and book values of the System's assets, except that bonds are carried at book value. Assets are accounted for on an accrued basis.

Valuation of Medical Benefits

Medical benefits for retirees are provided by the payment of premiums from the fund. A pre-65 cost and lower post-65 cost (due to Medicare) were assumed such that the total rate for all retirees equals the present premium rate. These medical premiums are then increased with the health inflation assumption. The actuarial cost method used for funding retirement benefits is also used to fund health benefits.

TABLE 1

ALASKA TRS

TOTAL TURNOVER ASSUMPTIONS

Select Rates of Turnover During the First 10 Years of Employment Ultimate Rates of Turnover After the First 10 Years of Employment

Year of Employment	Rate
1 2 3	.17 .15
	.12
4 5	.12
6	.09
7 .	.07
8	.07
9	.07
10	.06

Ages	Rate
20-39 40+	.03 .02

William M. Mercer-Meidinger, Incorporated TABLE 2 ALASKA TRS - DISABILITY RATES ANNUAL RATES PER 1,000 EMPLOYEES

Age	Rate
20 21 22 23 24 25	.42 .43 .43 .44 .44
26 27 28 29 30	.46 .47 .48 .49
31 32 33 34 35	.52 .53 .54 .56
36 37 38 39 40	.59 .62 .64 .67
41 42 43 44 45	.72 .76 .82 .89
46 47 48 49 50	1.06 1.15 1.24 1.34 1.44
51 52 53 54 55	1.56 1.72 1.91 2.13 2.40
56 57 58 59 60	2.75 3.20 3.66 4.32 5.06
61 62 63 64	5.85 6.78 7.83 8.94

TABLE 3

ALASKA TRS - RETIREMENT ASSUMPTION

Age at	Retirement
Retirement	Assumption
50 51 52 53 54	.063 .063 .063 .063
55	.117
56	.117
57	.117
58	.117
59	.117
60	.260
61	.180
62	.210
63	.240
64	.270
65	.540
66	.820
67	1.000

For ages less than 50, teachers are assumed to retire two years after the earliest age they are eligible to retire.

Section 2.3 CALCULATION OF TOTAL CONTRIBUTION RATE

Norm	al Cost Rate	
(1)	Total Normal Cost*	\$ 65,050
(2)	Total Salaries*	392,136
(3)	Normal Cost Rate (1) / (2)	16.59%
(4)	Average Member Contribution Rate	7.23%
(5)	Consolidated Employer Normal Cost Rate, (3) - (4)	9,36%
-	·	
Past	Service Rate	
(1)	Present Value of Accrued Benefits*	\$1,115,773
(2)	Valuation Assets*	1,040,173
(3)	Total Unfunded Liability*, (1) - (2)	75,600
(4)	Amortization Factor	10.706612
(5)	Past Service Payment, (3) / (4)	7,061
(6)	Total Salaries*	392,136
(7)	Past Service Rate, (5) / (6)	1.80%
Tota	1 Employer Contribution Rate	11.16%

VAL2.6/js/jam

^{*} In thousands.

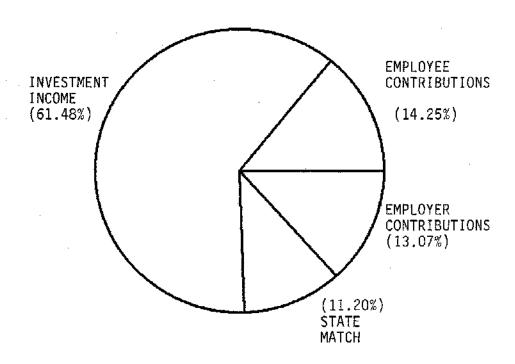
STATE OF ALASKA TEACHERS' RETIREMENT FUND Comparative Statement of Operations

	FISCAL June 30, 1987	YEAR ENDED June 30, 1986
Beginning Equities and Reserves	\$1,141,650,155	\$ 866,333,672
Additions:		
Employees' Contributions: Mandatory Supplemental Reinstatement Arrearage Retroactive Indebtedness Interest	29,382,660 903,652 453,773 1,361,827 51,236 2,005,636	28,988,759 969,386 302,682 1,160,803 30,335 587,056
Total Employees' Contributions	34,158,784	32,039,021
Employers' Contributions	31,320,495	36,637,019
State Contributions-Matching	26,856,301	32,638,698
Investment Income	147,105,977	119,172,931
Market Value Adjustment	(15,676,739)	103,643,000
Option I, Long Term Care, DVA, RIP Admin	280,578	-0-
Total Additions	224,045,396	324,130,669
Total Equities, Reserves and Additions	1,365,695,551	1,190,464,341
Deductions:		
Administrative Expenses Personnel Services Travel and Moving Contractual Services Supplies and Materials Machinery/Equipment Grants/Interagency	852,488 17,949 287,719 6,332 12,592 2,325,034	772,236 40,151 321,916 12,630 15,852 1,439,800
Total Administrative Expenses	3,502,114	2,602,585
Employees' Contributions and Interest Refunded	4,238,873	3,311,113
Provision for Loan Loss	3,694,000	-0-
Medical Benefit Expenses	4,613,300	4,424,300

STATE OF ALASKA TEACHERS' RETIREMENT FUND Comparative Statement of Operations

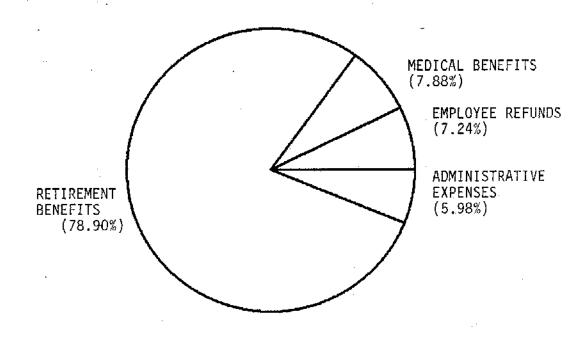
	FISCAL Y	EAR ENDED June 30, 1986
Retirement Benefits Paid: Base Benefits Cost of Living Allowance Widow Annuity Survivor Benefits Disability Benefits Post Retirement Pension Adjustment Lump-Sum Benefits	33,441,310 2,391,373 457,763 545,365 1,547,393 7,739,475 13,560 46,975	27,581,389 1,941,998 389,560 551,221 1,342,479 6,563,789 61,807 43,945
Non-occupational Death Benefits Total Retirement Benefits	46,183,214	38,476,188
Total Deductions	62,231,501	48,814,186
Ending Equities and Reserves-Adjusted	\$1,303,464,050	\$1,141,650,155

STATE OF ALASKA
TEACHERS' RETIREMENT SYSTEM
YEAR ENDED JUNE 30, 1987
INCOME AND RECEIPTS
\$239,722,135



STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM YEAR ENDED JUNE 30, 1987

DISBURSEMENTS \$58,537,501

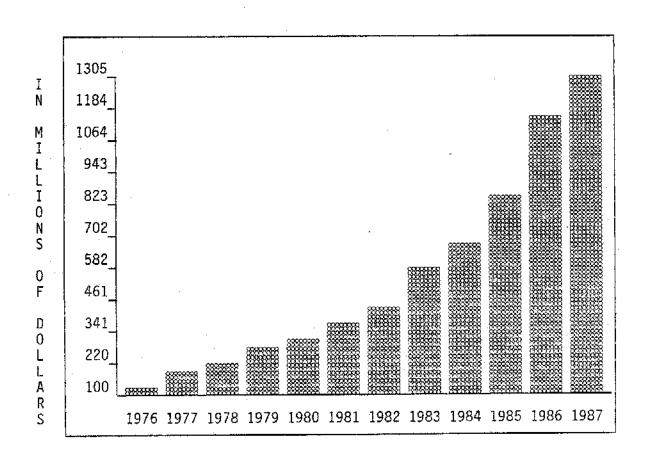


STATE OF ALASKA
TEACHERS' RETIREMENT FUND
Historical Data
Fiscal Years 1976 through 1987
(cents omitted)

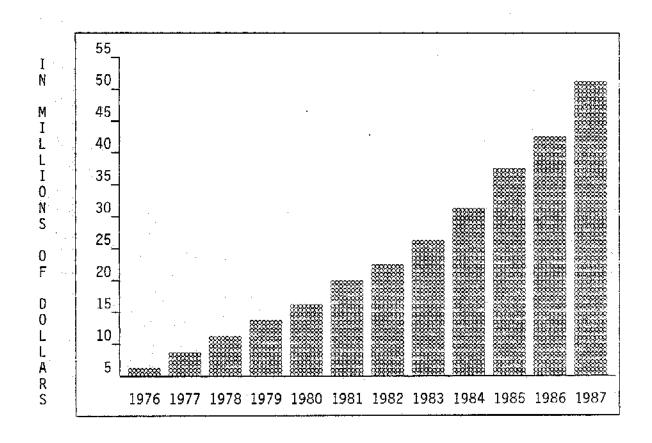
Net Investment Income During	9,240,962	13,583,578	16,051,252	22,311,725	31,783,301	39,180,591	30,900,759	62,075,568	60,586,110	73,312,456	119,172,931	128,015,816
Employees' Contributions and Interest Refunded During	1,926,611	1,859,829	2,319,376	2,419,936	3,087,910	3,172,253	2,974,426	2,509,240	3,094,220	3,126,205	3,311,113	4,238,873
Benefits Paid Including Medical Expenses &	6,390,012	8,161,421	11,025,589	13,838,067	16,462,399	20,004,135	22,881,444	26,360,363	31,048,570	37,752,518	42,900,488	50,796,514
Employees' Contributions During	11,590,177	12,162,883	15,510,483	15,142,057	16,650,594	18,853,076	21,735,042	24,546,266	27,256,918	29,175,647	32,039,021	34,158,784
State of Alaska and Employers' Contributions During	19,348,436	24,030,230	19,792,849	26,558,644	31,243,171	37,653,917	50,856,750	54,717,900	63,315,499	68,825,841	69,275,717	58,176,796
Assets Fiscal	137,623,382	177,345,467	215,370,551	267,043,332	320,314,293	373,253,081	443,528,571	591,382,599	659,572,326	866,333,672	1,141,650,155	1,303,464,050
Fiscal	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987

* Figures presented on an accrual basis effective FY 1979.

STATE OF ALASKA TEACHERS' RETIREMENT FUND TOTAL ASSETS FISCAL YEARS 1976 THROUGH 1987



STATE OF ALASKA TEACHERS' RETIREMENT FUND BENEFITS PAID FISCAL YEARS 1976 THROUGH 1987



STATE OF ALASKA TEACHERS' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1987

Employer	<u>Percentage</u>
Adak Region School District Alaska Gateway Schools Alaska, University of Alaska, University of, Geophysical	6.88%
Institute Aleutian Region School District	S
Anchorage School District	Ä
Annette Island School District	M
Association of Alaska School Boards	E
Bering Straits School District	
Bristol Bay Borough School District	F
Chatham School District	0
Chugach Regional School District	R_{\cdot}
Copper River School District	
Cordova School District	A
Craig School District	L
Delta-Greely School District	· L
Department of Education,	-
State of Alaska	. E
Dillingham School District	М
Fairbanks North Star Borough School	P
District	
Galena City School District	. ү
Haines City Schools	· E
Hoonah City Schools	.R
Hydaburg City School District	Ċ
Iditarod Area School District Juneau Borough School District	,
Kake City Schools	
Kashunamiut Schoot District	
Kenai Peninsula Borough School District	
Ketchikan Gateway Borough School District	
King Cove City School District	
Klawock City Schools	
Kodiak Island Borough School District	
Kuspuk School District	
Lake and Peninsula School District	•
Lower Kuskokwim School District	
Lower Yukon School District	
Matanuska-Susitna Borough School District	
National Education Association	· .
Nenana City Public Schools	
Nome City Schools	
North Slope Borough School District	
Northwest Arctic School District	•
Pelican School District	

STATE OF ALASKA TEACHERS' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1987

Continued

<u>Employer</u>	<u>Percentage</u>
Petersburg City Schools Pribilof Region School District Railbelt School District	6.88%
Sand Point City School District Sitka Borough School District Skagway City School District Southeast Islands School District	S A M
Southeast Regional Resource Center Southwest Region School District Special Education Service Agency Saint Mary's School District	E
State Legislature Tanana School District	F 0 R
Unalaska School District Valdez City Schools Wrangell Public Schools Yakutat School District Yukon Flats School District	A L L
Yukon Koyukuk School District Yupiit School District	E M P
	L 0 Y E R S
	\$

INVESTMENTS



SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

SHORT TERM INVESTMENTS	Interest Rate	Maturity Date	Par Value	Set	Market Value	Yield
Repurchase Agreement	6.45%	07-01-87	\$ 5,700	\$ 5,700	\$ 5,700	6.45%
TOTAL SHORT TERM INVESTMENTS			\$ 5,700	\$ 5,700	\$ 5,700	
UNITED STATES GOVERNMENT SECURITIES						
U.S. Treasury Bonds and Notes						
U.S. Treasury Bonds	10,37	11-15-09	\$60,000	\$67,313	\$68,250	9.12
	11.75	02-15-01	30,000	33,713	37,397	64°6
	13,12	05-15-01	2,000	5,759	6,772	9,69
	15.57	02-15-03	30,000	38,287	43,706	9.78
	11.62	11-15-02	25,000	25,717	31,039	9.36
	10.75	05-15-03	30,000	34,734	35,044	9.20
	11.12	08-15-03	25,000	25,031	30,047	9.26
	12.00	08-15-13	20,000	71,358	65,094	9.22
	11.87	11-15-03	45,000	47,309	56,981	9.38
U.S. Treasury Notes	13,00	11-15-90	15,000	15,852	17,226	11.32
	14.25	11-15-91	15,000	16,319	18,408	11.61
	10,50	11/15-92	10,000	9,870	11,009	9.54
	10.87	02-15-93	20,000	20,794	22,387	9.72
	10.12	05-15-93	40,000	39,867	43,537	9.30
	11.75	11-15-88	10,000	696'6	10,572	11:11
	11,12	09-30-87	000 , 04	41,197	40,437	11.00
	11.75	11-15-93	14,000	14,376	16,367	10,05
	13.12	05-15-94	14,000	15,385	17,478	10.51
	11.00	11-15-87	55,000	56,470	55,842	10,83
	8.87	08-31-87	10,000	10,275	10,037	**************************************
	8.87	10-31-87	70,000	/11,10/	70,459	8.82
TOTAL UNITED STATES GOVERNMENT SECURITIES			\$633,000	\$692,005	\$735,633	9.68

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Yield		9.78	10.83	10.11	9.70	12,97	9.16	10.40	9,73 10,56	10.70			11.11	₹6°6	49.6	10,78	10,83	10.97	11,48	98.6	10,95	11.27	10,83	11,52	11.58	10.91	
Market Value		\$ 6,058 6,098	8,770	8.235	7,768	16,650	5,535	12,840	5,317 6,750	\$84,738	1		\$ 6,682	5,661	5,760	6,818	6,787	6,975	11,325	5,842	6,570	6,923	9,420	046.8	6,735	\$94,438	\$179,176
Cost		\$ 5,946 6,256	8,898	8.909	8,204	16,037	5,685	12,762	5,279 6,788	\$85,521			\$ 6,679	5,985	5,767	6,748	6,773	6,397	10,447	6,082	6,531	6,563	8,635	8,650	6,735	\$91,992	\$177,513
Par Value		\$ 6,000	8,000	000	9,000	15,000	9,000	12,000	000,9	\$83,681			\$ 6,000	9,000	9,000	9,000	e,000	9,000	10,000	9,000	5,932	000	8,000	B,000	000*9	\$85,932	\$169,613
Maturity Date		06-01-02 02-01-16	10-01-12	11-15-16	01-15-17	06-15-04	07-01-16	11-15-15	03-15-17 12-01-14				03-01-13	06-15-26	03-15-16	02-01-25	12-01-24	04-01-25	09-01-16	11-01-14	12-01-12	03-15-15	02-15-25	04-01-15	03-01-13		
Interest <u>Rate</u>		9.87	11.87	9.25	8.37	14.40	0°6	11.12	8.62 11.87		;		12,37	9,37	9,25	12.25	12.25	12.75	13,00	9,62	12.12	13.00	12.75	12,87	13.00		RES
CORPORATE BONDS, NOTES, AND DEBENTURES	Corporate/Industrial	Allied Signal Inc. Deb Amoco Co Gtd Deb	Anheuser Busch Cos Inc Deb Dayton Hydson Corp Deb	Dayton Mudson Corp Deb	K Mart Corp Deb	Mobil Corp Deb	Penny J C inc	Pilisbury Co Deb	KJK Nabisco inc Deb Sears Roebuck & Co Deb	Total industrial	-	Corporate/Utility	Florida Pwr & Lt Co 1st Mtg	General Tel Co Calif 1st Mtg	Georgia Pac Corp Deb	Mountain Sts Tel & Teleg Co Deb	Wew York Tel Co Deb	Pacific Bell Deb	Pacific Gas & Elec Co lst & Ret Mtg Ser	Pacific Tel & Teleg Co Deb	Public Svc Elec & Gas Co 1st & Ref Mtg S	Southern Calif Edison Co 1st & Ref Mtg S	Southwestern Bell Tel Co Deb	Texas Utils Elec Co 1st Mtg & Coll TR	Union Elec Co 1st Mtg	Total Utility	TOTAL CORPORATE BONDS, NOTES, AND DEBENTURES

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

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	Interest <u>Rate</u>	Maturity Date	Shares/ Par Value	Carrying Value	Market Value	Yteld
Commercial Paper/Finance						
Ford Motor Credit Corp Note	6.80	07-14-87 07-15-87	\$10,000	\$10,000	\$10,000	6.80
card Motor Credit Corp Note Jeneral Motors Accep Corp Note	6,70	07-06-87	000,	2,000	5,000	6.70
Jeneral Motors Accep Corp Note	6.80	07-07-87	8,000	8,000	8,000	6.80
General Motors Accep Corp Note	6.92	07-10-87	2,000	186°1	486°C	90.0
Household Finance Corp Note	6.85	07-21-87	10,000	10,000	000 ° DL	200 200 200
L & L tapital torp Note End Divers Carital Cord Note	9 6 6 8	07-07-87	1,000	† 766 766	466	6,97
United States Bancorp Note	6.75	07-07-87	2,500	2,470	2,470	6,83
Weyerhaeuser Mortgage Co Note	6.85	07-09-87	3,000	2,981	2,981	6.89
			\$46,000	\$45,900	\$45,900	
Commercial Paper Industrial			•			
EG & G inc Note	6.85	07-14-87	\$ 2,000	\$ 1,987	\$ 1,987	6.90
Kroger Co Note	6.85	07-15-87	3,000	2,976	2,976	96.90
Olympia & York Wilshire Note	06.90	07-09-87	2,000 3,000	1,987	1,987	ກີ ໝູ່ແ
Pacific Lelecom Inc Note	00.0	10-17-10	Opport.	000.27	00017	
Total			\$10,000	\$ 9,930	\$ 9,930	
Commercial Paper Pool						
	42. 7		4 1 900		\$ 1.900	6.35
Electric Credit Corp Master			**************************************	**************************************	- 44 - 44 - 45 - 45 - 45 - 45 - 45 - 45	, 00 A
General Electric Credit Corp Master Ni	5.54		00167	1	0017	77.0
Total			\$14,500	\$14,500	\$14,500	
Commercial Paper/Other			•			
Lake Erie Note	6.92	07-02-87	\$ 3,000	\$ 2,979	\$ 2,979	6.97
Mid Atlantic Fuel Co Note	6.87	07-29-87	1,300	1,292	1,292	6,92
Mid Atlantic ruel to Mote Penn Fuel Corp Note	6.87	07-29-87	4,200	4,173	4,173	6.92
Total			\$11,500	\$11,424	\$11,424	
			000	401 754	401 754	
TOTAL COMMERCIAL PAPER			000 \$ 200	+C/4 Oc	107	

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	<u>Shares</u>	Cost	Market
Abbott Labs	92,500	\$ 5,132	\$ 5,770
Aetna Life and Casualty Company	41,900	2,365	2,493
Alco Standard Corporation	149,000	2,602	3,874
American Cyanamid Company	64,200	3,040	3,146
American Electric Power, Inc.	111,300	2,792	3,061
American General Corporation	87,000	2,676	3,447
American Greetings Corporation	39,600	974	1,030
American Home Products Corporation	43,700	2,764	3,720
American International Group, Inc.	92,900	5,958	6,584
American International Group, Inc.	51,600	2,181	3,657
American Standard, Inc.	80,000	2,633	3,390
Amoco Corporation	32,300	2,844	2,826
AMR Corporation Del	51,300	3,083	3,040
Anadarko Pete Corporation	17,700	329	524
Anheuser Busch Companies	83,400	2,175	2,836
Archer Daniels Midland Company	176,100	3,296	4,315
Atlantic Richfield Company	44,500	2,311	4,239
Avery International Corporation Bankers Trust NY Corporation	55,600 63,100	1,401 2,930	1,390 3,218
Bankers Trust NY Corporation	113,900	5,301	5,809
Bank New York, Inc.	49,700	1,977	2,162
Boeing Company	75,500	3,424	3,539
Boise Cascade Corporation	27,600	1,914	2,008
Brunswick Corporation	166,000	3,810	3,984
Caterpiller, Inc.	49,200	2,807	2,632
Chase Manhattan Corporation	39,900	1,656	1,646
Chubb Corporation	83,100	5,188	5,111
Citicorp	29,500	1,567	1,741
Coca Cola Company	130,100	5,599	5,790
Commonwealth Edison Company	103,500	3,163	3,584
Community Psychiatric Centers	101,500	3,257	4,174
Consolidated Freightways, Inc.	111,750	2,388	4,079
Cooper Industries, Inc.	70,000	2,491	4,130
Corning Glass Works	67,200	3,761	4,301
CPC International, Inc.	71,400	1,518	3,891
CSX Corporation	57,700	1,856	2,012
Cummins Engine, Inc.	47,000	3,813	4,242
Dover Corporation	61,500	2,321	4,144
Dow Chemical Company	69,800	5,805	6,012
Dow Jones and Company, Inc.	80,700	4,047	4,136
E Sys Inc Com Par \$1	17,000 16 300	532 1,404	555 1,520
Exxon Corporation Farmers Group, Inc.	16,300 71,100	2,870	3,200
rainers droup, Inc.	11,100	010 د م	3,200

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	<u>Shares</u>	Cost	Market
Federated Department Stores, Inc.	38,800	1,774	2,027
Federated Department Stores, Inc.	79,000	2,401	4,128
Ford Motor Company Del	56,300	4,860	5,574
Fort Howard Paper Company	71,000	3,917	3,807
Gannett, Inc.	110,800	5,334	5,651
Gencorp, Inc.	19,800	2,052	2,039
General Dynamics Corporation	60,100	4,312	4,012
General Electric Company	117,000	4,323	6,362
General Electric Company	68,200	2,157	3,708
General Motors Corporation	42,500	3,078	3,512
General Motors Corporation	62,100	5,287	5,131
General RE Corporation	54,800	2,136	2,973
Gillette Company	72,700	2,072	2,772
GTE Corporation	156,300	5,373	6,018
Hanson TR PLC Sponsored ADR	250,000	3,560	3,594
Hewlett Packard Company	72,500	2,528	4,432
Honeywell, Inc.	38,300	3,024	3,160
Hospital Corporation Amer	58,700	2,083	2,722
Houston Industries, Inc.	117,000	4,170	3,890
International Business Machines Corp.	49,800	7,396	8,093
International Business Machines Corp.	23,700	3,056	3,851
International Business Machines Corp.	43,300	6,384	7,036
International Minerals & Chemical Corp.	72,700	2,657	3,035
ITT Corporation	100,000	4,975	5,875
Johnson and Johnson	41,700	2,706	3,831
K Mart Corporation	82,500	2,639	3,486
Kroger Company	59,900	1,866	2,201
Lilly Eli and Company	41,100	1,459	3,858
Lockheed Corporation	75,000	3,736	3,872
Manor Care, Inc.	190,000	3,498	3,515
Mapco, Inc.	67,500	2,407	3,696
Marion Laboratories, Inc.	108,900	3, 579	3,920
Marriott Corporation	133,800	5,504	5,235
Marsh and Mclennan Companies, Inc.	37,700	2,452	2,342
McDonalds Corporation	76,125	2,194	4,035
McDonalds Corporation	39,000	1,754	2,067
Melville Corporation	49,500	2,224	3,632
Merck and Company, Inc.	23,000	1,315	3,922
Merck and Company, Inc.	42,000	4,593	7,161
Minnesota Mining and Manufacturing Company	54,000	3,427	3,827
Minnesota Mining and Manufacturing Company	60,000	2,688	4,253
Mobil Corporation	117,700	5,743	5,988
Morgan, J.P. and Company, Inc.	73,400	3,087	3,514

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	Shares	Cost	Market
Morgan Stanley Group, Inc.	20,800	1,510	1,505
Morton Thiokol, Inc.	46,200	1,684	2,056
Motorola, Inc.	107,800	6,072	5,835
National Distillers and Chemical Corp.	57,600	3,773	3,910
NCR Corporation	54,000	2,136	4,023
NCR Corporation	74,100	4,074	5,521
Newmont Mng. Corporation	7,900	349	. 372
New York Times Company	68,100	2,803	3,201
Norsk Hydro Sponsored ADR	140,000	2,974	4,480
Northern Industries Public Service Company	132,500	1,578	1,557
Occidental Pete Corporation	111,100	3,913	4,180
Ohio Gas Corporation	79,400	2,666	3,514
Pacific Lighting Corporation	26,200	1,321	1,438
Penney, J.C., Inc.	29,600	1,112	1,554
Penney, J.C., Inc.	109,400	5,632	5,744
Pepsico, Inc.	85,400	2,523	3,074
Philip Morris Companies, Inc.	39,700	2,734	3,558
Philip Morris Companies, Inc.	24,700	1,734	2,214
Pillsbury Company	74,300	2,654	3,223
Polaroid Corporation	106,000	3,290	4,068
Procter and Gamble Company	9,100	621 -	892
Procter and Gamble Company	41,500	2,509	4,067
Public Service Enterprise Group, Inc.	103,200	4,106	3,922
Raytheon Company	49,000	2,328	3,700
Royal Dutch Pete Co. NY Registry Sh Par Salomon, Inc.	31,000	3,486	4,092
Schering Plough Corporation	97,000 114,800	3,980 4,108	3,189 5,582
Schlumberger Ltd. Company	86,000	2,995	3,935
Seagram, Ltd.	41,900	3,108	3,158
Sears Roebuck and Company	115,500	4,875	5,847
Smithkline Beckman Corporation	27,400	1,304	1,637
Southwest Bell Corporation	107,000	3,625	4,160
Squibb Corporation	63,800	5,361	5,535
St. Paul Companies, Inc.	87,900	3,608	4,021
Sterling Drug, Inc.	53,200	2,548	3,052
Stevens, J.P. and Company, Inc.	65,800	2,787	2,821
Tandy Corporation	25,400	1,329	1,095
Tektronix, Inc.	65,000	2,249	2,519
Texaco, Inc.	44,700	1,550	1,810
Texas Eastn Corporation	96,800	3,350	3,533
Texas Instruments, Inc.	96,600	5,424	5,917
Textron, Inc.	113,000	2,998	3,432
Transco Energy Company	33,700	1,270	1,226

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	Shares	Cost	<u>Market</u>
Triangle Industries, Inc. Union Carbide Corporation Unisys Corporation Unitys Corporation United Technologies Corporation United Telecommunications, Inc., Kans Upjohn Company USX Corporation Walmart Stores, Inc. Wang Laboratories, Inc., CL-B Waste Management, Inc. Wells Fargo and Company Westinghouse Electric Corporation Whirlpool Corporation Xerox Corporation	146,600 110,900 15,900 26,300 109,500 78,700 125,900 132,900 54,200 97,400 142,700 34,000 51,100 96,000 35,900	4,392 2,811 1,573 3,070 4,959 2,084 4,982 3,360 2,392 1,544 4,639 1,632 3,075 2,430 2,855	5,278 3,285 1,960 3,242 5,721 2,154 5,697 4,186 3,665 1,546 5,601 1,849 3,251 3,420 2,773
Total Common Stock		439,574	522,508
Income and Principal Cash		669	669
Total		\$521,997	\$604,931

ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

	<u>Cost</u>	<u>Market</u>
Foreign Investments Managed By		
Morgan Guaranty Trust Equities	\$ 87,052	\$ 99,493
Citibank Equities	78,511	103,907
Total Foreign Investments	\$165,563	\$203,400
Real Estate Equity Fund	\$110 , 673	\$117,480
Total Real Estate Equity Fund	\$110,673	\$117,480

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(<u>IN THOUSANDS</u>)

Real Estate Mortgages and SBA Loans			
SBA Loans Services By	Interest Rate Range	Out- Standing Cost	Weighted Average Yield
Alaska Mutual Bank	9.50	\$ 33	9.50
First National Bank of Fairbanks National Bank of Alaska Rainier Bank Alaska	15.75 8.00 - 10.50 8.00	440 57 5	15.75 8.16 8.00
Total SBA Loans		<u>\$535</u>	
Bureau of Indian Affairs Serviced By			
National Bank of Alaska	10.50	<u>\$917</u>	10.50
Farmers Home Administration Loan Serviced By			
National Bank of Alaska	9.75	\$1,368	9.75
Conventional/Residential Mortgages Serviced By		٠.	•
Alaska Continental Bank Alaska Federal Savings and Loan Alaska Mutual Savings Bank Alaska National Bank Alaska Pacific Bank Alaska Statebank Arctic First Federal Savings & Loan FedAlaska Federal Credit Union First Alaskan Mortgage First Bank First Federal Bank of Alaska First Interstate Bank of Alaska	13.50 - 14.50 7.00 - 16.50 9.37 - 15.25 9.37 - 14.50 9.37 - 15.00 9.37 - 16.75 10.50 - 11.75 13.50 - 14.50 9.25 - 15.12 9.37 - 14.50 9.87 - 15.50 8.00 - 16.75 9.25 - 16.50	1,914 2,882 5,874 6,296 7,000 12,967 728 1,079 226 973 7,493 2,749 15,355	13.77 12.48 11.09 10.29 11.97 11.13 10.88 14.19 12.15 11.13 13.58 13.39 11.35

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1986

(IN THOUSANDS)

Real	Estat	e Mort	gages	5
and	1 SRA	loans	- Cor	itinued:

and SBA Loans - Continued:	Interest <u>Rate Range</u>	Out- Standing Cost	Weighted Average Yield
* First National Bank of Fairbanks Home Savings and Loan Key Pacific Mortgage Company Kissell Mortgage Company Lomas and Nettleton Company National Bank of Alaska Peoples Mortgage Company Peninsula Savings and Loan Rainier Bank Alaska Seafirst Corporation Security National Bank	9.87 - 15.50 9.50 - 13.50 13.50 - 14.50 9.50 - 17.00 13.50 - 14.00 10.50 - 16.00 10.25 - 10.50 11.50 - 15.50 9.50 - 11.00 9.25 - 14.87 11.50 - 16.75	\$ 3,746 7,031 6,056 31,891 375 1,686 659 508 1,252 8,920 3,738	12.93 10.82 13.87 12.84 13.58 12.55 10.31 14.61 10.40 10.78 14.22
Total Conventional/Residential Mortgages		\$131,398	
* This is now under Key Pacific Morto	gage Company		
FHA Mortgages Serviced By			
Alaska Mutual Bank Alaska National Bank Alaska Pacific Bank Alaska State Bank First National Bank of Anchorage National Bank of Alaska Rainier Financial Services Washington Mortgage Company	6.75 - 8.50 7.50 - 8.50 11.50 5.25 - 10.50 5.25 - 9.00 5.25 - 8.50 5.75 - 7.50 7.00	\$ 279 104 220 878 827 568 475 778	7.75 8.14 11.50 7.41 7.63 7.17 6.92 7.00
Total FHA Mortgages		\$ 4,129	
Total Real Estate Mortgages and SBA Loans before allowance		\$138,347	
Allowance for loan losses		4,221	
Total Real Estate Mortgages and SBA Loans After Allowance		\$134,126	

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987 (IN THOUSANDS)

SHORT-TERM INVESTMENTS R	Interest Rate	Maturity Date	Shares/ Par Value	Carrying Value	Market Value	Yield
Repurchase Agreements	6.45	07-01-87	\$ 2,800	\$ 2,800	\$ 2,800	6,45
Total Short Term Investments			\$ 2,800	\$ 2,800	\$ 2,800	
UNITED STATES GOVERNMENT SECURITIES						
U.S. Treasury Bonds and Notes					•	
U.S. Treasury Bonds 10	10.37	11-15-09 02-15-01	\$40,000 15,000	\$44,875 16,856	\$45,500 18,698	9,12
13	3.37	08-15-01 02-15-02	13,000	13,787 25,525	17,903 29,137	9.71 9.78
	1,62	11-15-02	25,000	25,717	31,039	9.36
9. F.	0.75	05-15-03	15,000	17,925	17,522	07.6
	2.00	08-15-13	25,000	35,818	32,547	9.22
-	ò	3	200 5	100	7762	3
U.S. Treasury Notes	3.00	11-15-90	15,000	15,852	17,227	11,32
## CE	4, 25 0, 87	02-15-93	10,000	10,400	11,194	9.72
101	0.12	05-15-93	20,000	19,886	21,769	9.30
	1.75	11-15-88	10,000	10,047	10,572	11.11
1	1.12	09-30-87	15,000	15,595	15,164	11.00
	1.75	11-15-93	14,000	14,376	16,367	10.05
13	3.12	05-15-94	14,000	15,385	17,478	10.51
8	8.87	10-31-87	40°00 40°00	40,643	40,262	8.82
TOTAL UNITED STATES GOVERNMENT SECURITIES			\$378,000	\$413,216	\$445,972	9.72

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ALASKA TEACHERS' RETIREMENT SYSTEM

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987 (IN THOUSANDS)

CORPORATE BONDS, NOTES, AND DEBENTURES	Interest Rate	Maturity Date	Par Value	Cost	Market Value	Yield
Corporate/Industrial			. :			
Allied Signal Inc. Deb	9.87	06-01-02	\$ 4,000	\$ 3,964	\$ 4,039	9.78
Amoco Co Ctd Deb	9.87	02-01-16	000,4	4,170	4,065	9.72
Anheuser Busch Cos Inc Deb	11.87	10-01-12	2,000	5,558	5,481	10.83
Conoco Inc Deb	13,25	01-15-11	000*+	4,250	4,475	11.84
Dayton Hudson Corp Deb	11,25	11-15-15	426	4.4	644	10.68
Dayton Hudson Corp Deb	9.25	11-15-16	6,000	5,939	5,490	10.11
K Mart Carp Deb	8.37	01-15-17	000,9	5,469	5,179	9.70
Mobil Corp Deb	34.40	06-15-04	10,000	10,744	11,100	12.97
Penney J C Inc	00.6	07-01-16	000 °	3,790	3,690	9.16
Pillsbury Co Deb	11.12	11-15-15	8,000	8,508	8,560	10.40
RJR Nabisco inc Deb	8.62	03-15-17	000,4	3,520	3,545	9,73
Sears Roebuck & Co Deb	11.87	12-01-14	4,000	4,525	4,500	10.56
Tota1			\$59,426	\$60,911	\$60,573	10.70
Corporate/Utility						
General Tel Co Calif 1st Mtg	9,37	06-15-26	4,000	3,990	3,774	46.6
Georgia Pac Corp Deb	9.25	03-15-16	000.4.	3,845	3,840	9.64
Mountain Sts Tel & Teleg Co Deb	12,25	02-01-25	4,000	664,4	4,545	10,78
New York Tel Co Deb		12-01-24	000°+	4,515	4,525	10.83
Pacific Bell Deb		04-01-25	4,000	4,265	4,650	10,97
Pacific Cas & Elec Co 1st & Ret Mtg Ser		09-01-16	9,000	6,168	6,795	11.48
Pacific Tel & Teleg Co Deb		11-01-14	¢,000	4,055	3,895	98.6
Public Svc Elec & Gas Co lst & Ref Mtg S		12-01-12	3,954	4,316	4,379	10.95
Southern Calif Edison Co 1st & Ref Mtg S		03-15-15	000°	4,375	4,615	11.27
Southwestern Bell Tel Co Deb		02-15-25	2,000	5,386	5,887	10.83
Texas Utils Elec Co 1st Mtg & Coll TR		04-01-15	000°+	\$ 74,4	4,470	11.52
Union Elec Co 1st Mtg	13.00	03-01-13	000 € %	4,490	064 6 4	11.58
Total			\$50,954	\$54,348	\$55,865	10,91
TOTAL BONDS, NOTES, AND DEBENTURES			\$110,380	\$115,259	\$116,438	

ALASKA TEACHERS! RETIREMENT SYSTEM SCHEDULE OF INVESTMENTS HELD

JUNE 30, 1987

(IN THOUSANDS)

(CONTINUED)

6.89 6.89 6.98 6.94 6.83 6.83 6.90 6.35 6.35 6.35 6.97 6.97 6.93 6.93 Yield Market Value 2,484 1,000 1,000 1,984 2,965 994 2,965 \$12,600 5,800 1,987 993 2,980 1,987 2,985 \$ 2,980 \$26,420 \$10,931 \$6,000 2,484 1,000 1,984 2,984 2,965 994 \$ 2,980 5,800 \$12,600 1,986 993 2,980 1,987 2,985 \$10,931 \$26,420 1,987 993 Value \$6,000 2,500 1,000 1,000 1,000 1,000 1,000 Carrying Par Value \$ 3,000 5,800 \$12,600 111,000 \$26,500 Shares/ Maturity Date 07-14-87 07-15-87 07-07-87 07-10-87 07-21-87 07-22-87 07-07-87 07-29-87 07-01-87 07-21-87 07-01-87 07-14-87 07-10-87 37-02-87 Interest Rete 6.92 6.87 6.92 6.87 6.90 6.85 6.85 6.92 6.92 6.70 6.70 6.70 6.70 6.70 6.85 6.34 6.34 6.34 Electric Credit Corp Master NT Electric Credit Corp Master NT Electric Credit Corp Master NT Penna Power & Light Energy Trust Note Ford Motor Credit Corp Note Ford Motor Credit Corp Note General Motors Accep Corp Note General Motors Accep Corp Note Household Finance Corp Note L & L Capital Corp Note United States Bancorp Note Weyerhaeuser Mortgage Co Note Maumee Valley Fuel Corp Note Mid Atlantic Fuel Co Note Commercial Paper industrial Ohio Edison Fuel Corp Note Commercial Paper/Finance Morstar Bancorp inc Note Commercial Paper/Other Commercial Paper Pool EG & G Inc Note Lake Erie Note General Genera? General

\$52,931

\$52,931

\$53,100

TOTAL COMMERCIAL PAPER

Total

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	Shares	Cost	Market
Abbot Labs	60,400	\$ 3,289	\$3,767
Aetna Life and Casualty Company	27,300	1,542	1,624
Alco Standard Corporation	102,000	1,802	2,652
American Cyanamid Company	40,600	1,923	1,989
American Electric Power, Inc.	73,500	1,843	2,021
American General Corporation	56,000	2,006	2,219
American Greetings Corporation	26,200	644	681
American Home Products Corporation	29,000	1,853	2,469
American International Group, Inc.	60,500	3,879	4,288
American International Group, Inc.	34,300	1,475	2,431
American Standard, Inc.	49,600	1,562	2,102
Amoco Corporation	21,700	1,817	1,899
Anadarko Pete Corporation	11,600	215	344
Anheuser Busch Companies, Inc.	54,100	1,395	1,839
Archer Daniels Midland Company	114,800	2,149	2,813
Atlantic Richfield Company	29,000	1,509	2,762
Avery International Corporation	36,000	907	900
Bank New York, Inc.	32,400	1,289	1,409
Bankers Trust New York Corporation	41,100	1,907	2,096
Bankers Trust New York Corporation	74,600	3,622	3,805
Boeing Company	47,600	2,150	2,231
Bosie Cascade Corporation	18,300	1,269	1,331
Brunswick Corporation	159,600	3,625	3,830
Burlington Northern, Inc.	24,300	1,812	2,011
Chase Manhattan Corporation	26,000	1,079	1,073
Chubb Corporation	54,800	3,421	3,370
Citicorp	19,300	1,025	1,139
Coco Cola Company	84,100	3,621	3,742
Commonwealth Edison Company	64,600	1,950	2,237
Community Psychiatric Centers	61,000	1,952	2,509
Consolidated Freight Ways, Inc.	72,050	1,490	2,630
Cooper Industries, Inc.	43,500	1,568	2,567
Corning Glass Works	43,700	2,442	2,797
CPC International, Inc.	47,000	1,001	2,562
CSX Corporation	37,600	1,209	1,311
Cummins Engine, Inc.	29,500	2,393	2,662
Dover Corporation	40,400	1,525	2,722
Dow Chemical Company	44,700	3,748	3,850
Dow Jones and Company, Inc.	64,900	3,219	3,326
E Sys Com par \$1	11,200	351	365
Farmers Group, Inc.	46,900	1,892	2,111
Federated Department Stores, Inc.	49,500	1,584	2,586
Federated Department Stores, Inc.	25,300	1,156	1,322
Ford Motor Company Del	39,600	3,319	3,920

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	<u>Shares</u>	<u>Cost</u>	Market
Fort Howard Paper Company	47,000	2,596	2,520
Gannett, Inc.	75,700	3,613	3,861
Gencorp, Inc.	12,900	1,337	1,329
General Dynamics Corporation	39,200	2,815	2,617
General Electric Company	44,800	1,406	2,436
General Electric Company	77,200	2,855	4,198
General Motors Corporation	31,000	2,256	2,561
General Motors Corporation	21,100	1,916	1,743
General RE Corporation	36,800	1,434	1,996
Gillette Company	47,400	1,353	1,807
GTE Corporation	101,900	3,488	3,923
Hanson TR PLC Sponsored ADR	160,000	2,279	2,300
Hershey Foods Corporation	98,600	2,608	2,761
Hewlett Packard Company	43,200	1,520	2,641
Honeywell, Inc.	23,400	1,848	1,931
Hospital Corporation America	38,700	1,370	1,795
Houston Industries, Inc.	76,300	2,722	2,537
International Business Machines Corporation	17,000	2,174	2,763
International Business Machines Corporation	32,500	4,810	5,281
International Business Machines Corporation	29,700	4,413	4,826
International Minerals and Chemicals Corp.	46,300	1,709	1,933
ITT Corporation	66,000	3,293	3,878
Johnson and Johnson	27,200	1,757	2,499
K Mart Corporation	53,900	1,717	2,277
Kroger Company	40,000	1,246	1,470
Lilly Eli and Company	27,300	1,002	2,563
Lockheed Corporation	46,000	2,290	2,375
Manor Care, Inc.	120,000	2,209	2,220
Mapco, Inc.	44,000	1,565	2,409
Marion Laboratories, Inc.	52,900	1,804	1,904
Marriott Corporation	86,700	3,502	3,392
Marsh and Mclennan Companies, Inc.	24,500	1,596	1,522
McDonalds Corporation	45,000	1,351	2,385
McDonalds Corporation	3,750	168	199 876
MDC Holdings, Inc.	73,800	1,184	2,414
Melville Corporation	32,900	1,627 712	2,558
Merck and Company, Inc.	15,000 26,900	2,646	4,586
Merck and Company, Inc.	37,400	1,720	2,651
Minnesota Mining and Manufacturing Company Minnesota Mining and Manufacturing Company	35,200	2,234	2,495
Mobil Corporation	40,900	2,007	2,081
Morgan J.P. and Company, Inc.	48,300	2,032	2,312
Morgan Stanley Group, Inc.	20,000	1,452	1,448
HOLDER CONTINUE OF CASE THEY	,	- , ·	• -

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	Shares	<u>Cost</u>	Market
Morton Thiokol, Inc.	30,500	1,115	1,357
Motorola, Inc.	69,000	3,971	3,735
NCR Corporation	35,500	1,442	2,645
NCR Corporation	52,200	3,017	3,889
Newmont Mining Corporation	5,100	226	240
New York Times Company CLA	18,400	761	865
Norsk Hydro Sponsored ADR	92,000	1,932	2,944
Northern Industries Public Service Company	83,000	990	975
Occidental Pete Corporation	76,300	2,526	2,871
Ohio Casualty Corporation	56,300	1,911	2,491
Pacific Lighting Corporation	17,300	872	949
Penney, J.C., Inc.	19,300	725	1,013
Penney, J.C., Inc.	37,600	1,786	1,974
Pepsico, Inc.	55,700	1,647	2,005
Pepsico, Inc.	104,300	3,365	3,755
Philip Morris Companies, Inc.	25,900	1,796	2,321
Philip Morris Companies, Inc.	15,300	1,074	1,371
Pillsbury Company	48,900	1,746	2,121
Polaroid Corporation	49,200	1,502	1,888
Proctor and Gamble Company	27,900	1,739	2,734
Proctor and Gamble Company	5,900	403 2,679	578 2,557
Public SVC Enterprise Group, Inc.	67,300 32,800	1,583	2,476
Raytheon Company	20,000	1,244	1,510
Raytheon Company Royal Dutch Pete Co., New York Registry	20,500	2,305	2,706
Salomom, Inc.	58,500	2,269	1,923
Schering Plough Corporation	90,000	3,396	4,376
Schlumberger Limited	56,900	1,985	2,603
Sears, Roebuck and Company	76,200	3,224	3,858
Smithkline Beckman Coporation	17,800	848	1,064
Southwestern Bell Corporation	69,800	2,359	2,714
St. Paul Cos., Inc.	57,300	2,382	2,622
Sterling Drug, Inc.	35,100	1,680	2,014
Squibb Corporation	41,000	3,430	3,557
Tektronix, Inc.	42,300	1,464	1,639
Texaco, Inc.	28,800	995	1,166
Texas Eastn Corporation	63,100	2,183	2,303
Texas Instruments, Inc.	64,500	3,676	3,951
Textron, Inc.	73,600	1,956	2,236
Transco Energy Company	21,900	825	797
Triangle Industries, Inc.	47,800	1,463	1,721
TRW, Inc.	73,600	3,697	3,873
Union Carbide Corporation	72,300	1,830	2,142

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Common Stock	Shares	<u>Cost</u>	Market
Unisys Corporation	10,500	1,039	1,294
United Technologies Corporation	71,400	3,234	3,731
United Telecommunications, Inc., Kans Com	51,300	1,357	1,404
Upjohn Company	77,500	3,376	3,507
USX Corporation	86,600	2,382	2,728
USX Corporation	56,100	1,842	1,767
Wang Laboratories, Inc., CIB	64,300	1,020	1,021
Wang Laboratories, Inc., CIB	113,900	1,934	1,808
Wal Mart Stores, Inc.	21,000	927	1,420
Washington Post Company, CIB	9,500	1,815	2,090
Waste Management, Inc.	92,700	2,881	3,638
Wells Fargo and Company	22,200	1,065	1,207
Westinghouse Electric Corporation	29,900	1,808	1,902
Whirlpool Corporation	65,000	1,683.	_
Xerox Corporation	23,300	1,811	1,800
Total Common Stock	7,050	285,258	338,749
Income and Principal Cash		921	921
Total		\$339,110	\$392,601
			

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

	Cost	Market
Foreign Investments Managed By		
Morgan Guaranty Trust Equities	<u>\$57,614</u>	<u>\$66,338</u>
Citibank Equities	51,774	68,082
Total Foreign Investments	\$109,388	\$134,420
Real Estate Equity Fund	\$71,032	\$75,598
Total Real Estate Equity Fund	\$71,032	\$75,598

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

(CONTINUED)

Real Estate Mortgages and SBA Loans

SBA Loans Services By	Interest <u>Rate Range</u>	Out- Standing Cost	Weighted Average <u>Yield</u>
National Bank of Alaska	8.00	<u>\$104</u>	8.00
Total SBA Loans		\$104	
Farmers Home Administration Loan Serviced By			
First Interstate Bank of Alaska	12.75	\$628	12.75
Total Farmers Home Administration Loan	I	<u>\$628</u>	
Conventional/Residential Mortgages Serviced By			
Alaska Federal Savings and Loan Alaska First Mortgage Company Alaska Mutual Bank Alaska National Bank Alaska Pacific Bank Alaska USA Federal Credit Union B.M. Behrends Bank Commonwealth Western Mortgage Corp First Interstate Bank of Alaska Home Savings and Loan Kissell Mortgage Company Mt. McKinley Mutual Savings Bank National Bank of Alaska Peoples Mortgage Company Rainier Bank of Alaska United Bank Alaska Verex Mortgage Company	10.50 10.00 - 12.75 8.00 - 16.00 10.50 - 14.50 11.25 10.12 - 11.00 7.75 - 16.75 12.50 9.50 - 17.50 10.25 8.00 - 16.25 9.25 - 14.87 8.00 - 17.50 10.25 - 10.50 9.50 - 16.25 9.37 - 16.75 12.00 - 17.75	\$ 754 2,622 12,710 1,207 71 1,083 6,261 345 19,102 475 12,359 2,731 24,690 659 4,593 18,875 3,786	10.50 11.49 12.39 11.87 11.25 10.73 13.40 12.50 12.23 10.25 12.86 11.10 11.78 10.31 11.23 12.36 14.50
Total Conventional/Residential Mortgages		\$112,323	

SCHEDULE OF INVESTMENTS HELD AT

JUNE 30, 1987

(IN THOUSANDS)

Rea1	Estate	Mortg	ages	
and	SBA L	oans -	Continued	:

and SBA Loans - Continued:	Interest Rate Range	Out- Standing Cost	Weighted Average <u>Yield</u>
FHA Mortgages Serviced By			
Alaska Mutual Bank Alaska National Bank Alaska State Bank First National Bank of Anchorage National Bank of Alaska Rainier Bank Alaska Rainier Mortgage Company	6.00 - 8.50 5.75 5.25 - 8.50 5.25 - 8.50 6.00 - 7.50 7.50 5.25 - 8.50	\$ 370 11 411 1,063 817 22 366	7.64 5.75 6.78 7.99 6.97 7.50 7.72
Total FHA Mortgages		<u>\$ 3,060</u>	
Total Real Estate Mortgages and SBA Loans Before Allowance		\$116,115	
Allowance for Loan Losses		\$ 3,694	
Total Real Estate Mortages and SBA Loans After Allowance		\$112,421	

